FIG. 1

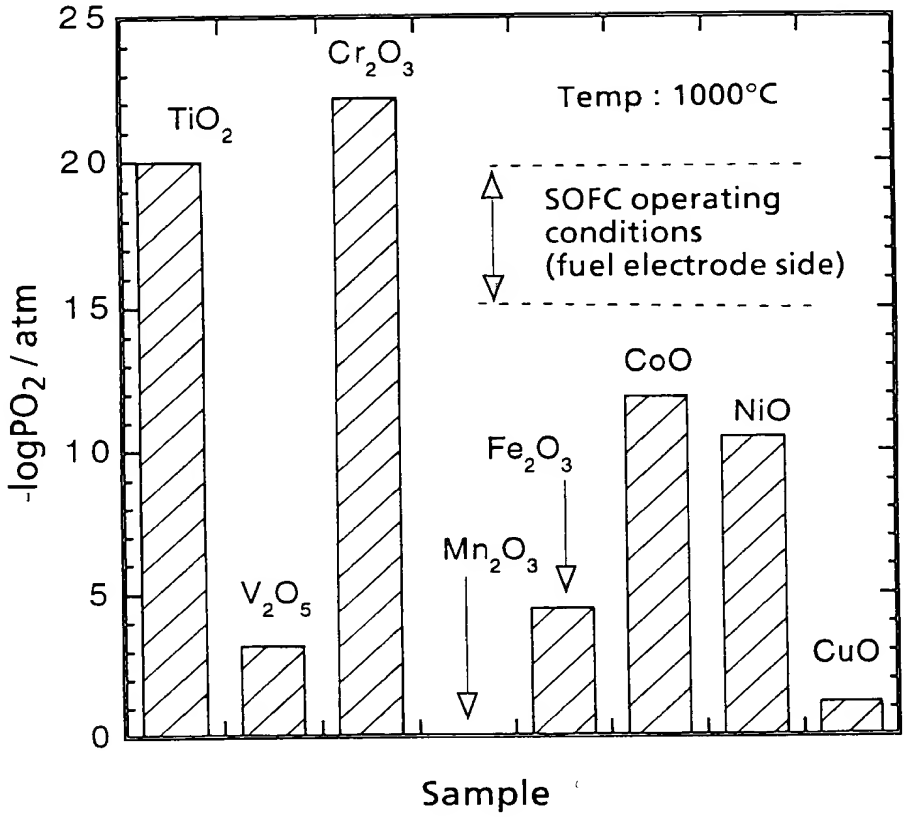


FIG. 2

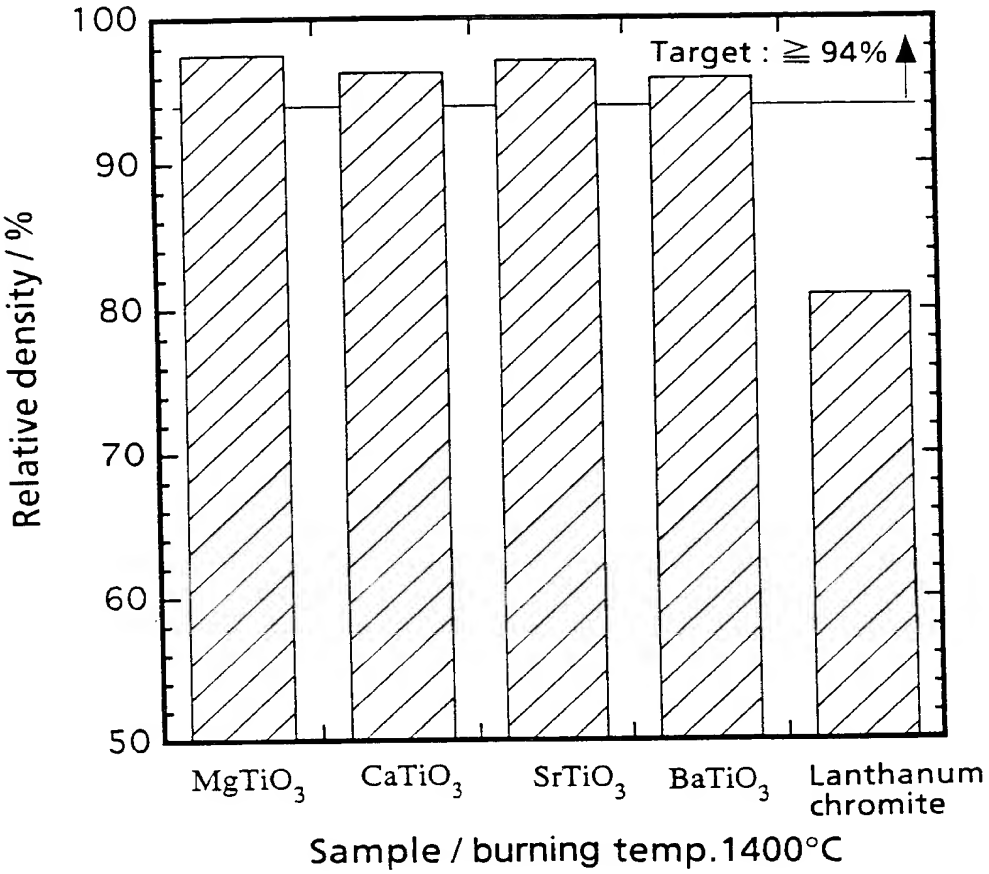


FIG. 3

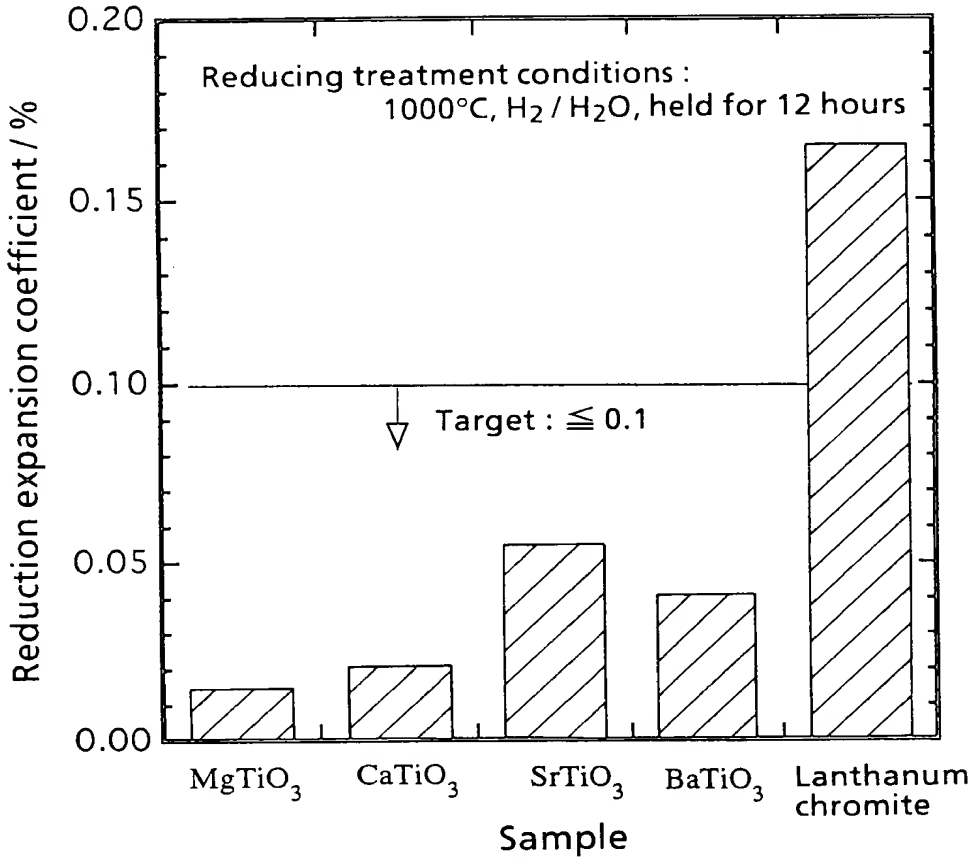


FIG. 4

Burning temp.	$MgTiO_3$ system	$La_{0.8}Sr_{0.2}CrO_3$ system
1400°C	$MgTiO_3$ phase	$LaCrO_3$ phase
1450°C	$MgTiO_3$ phase	$LaCrO_3$ phase
1550°C	$MgTiO_3$ phase	$LaCrO_3$ phase

FIG. 5

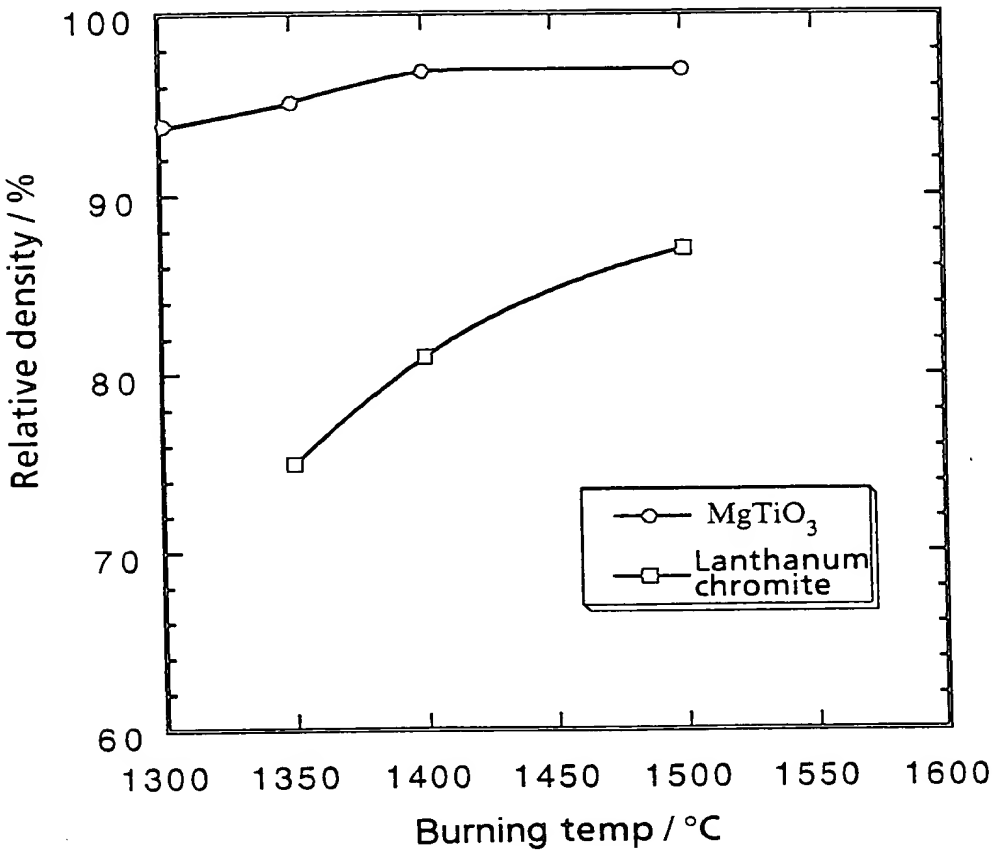


FIG. 6

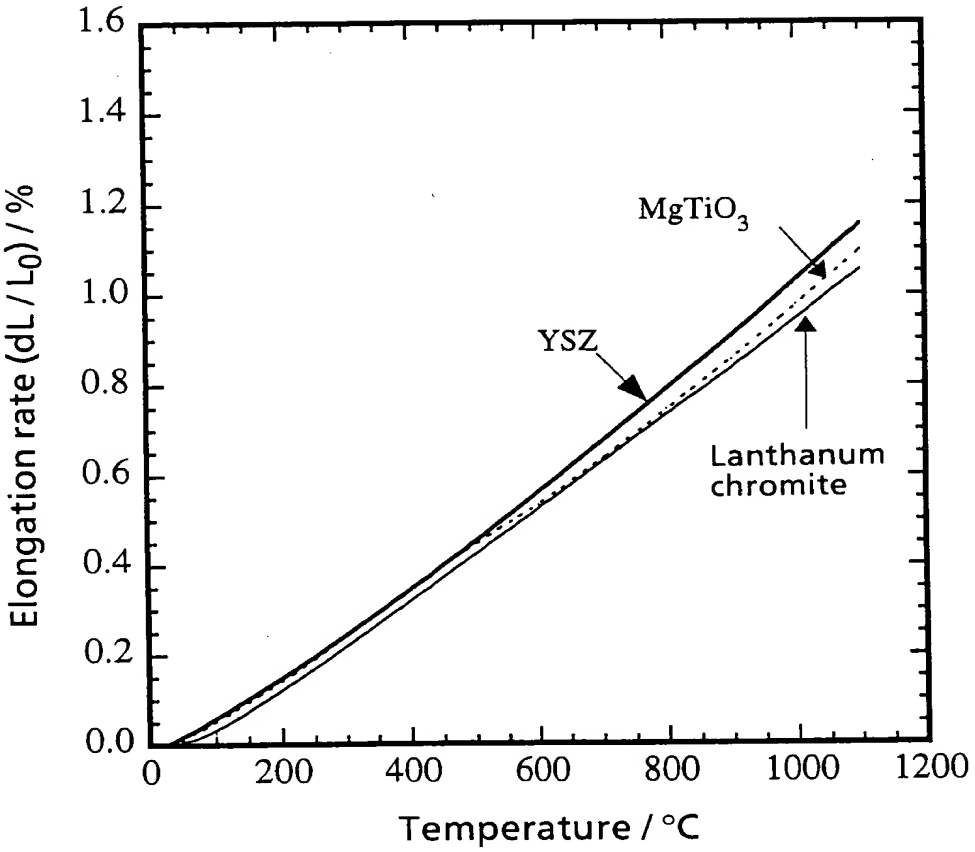


FIG. 7

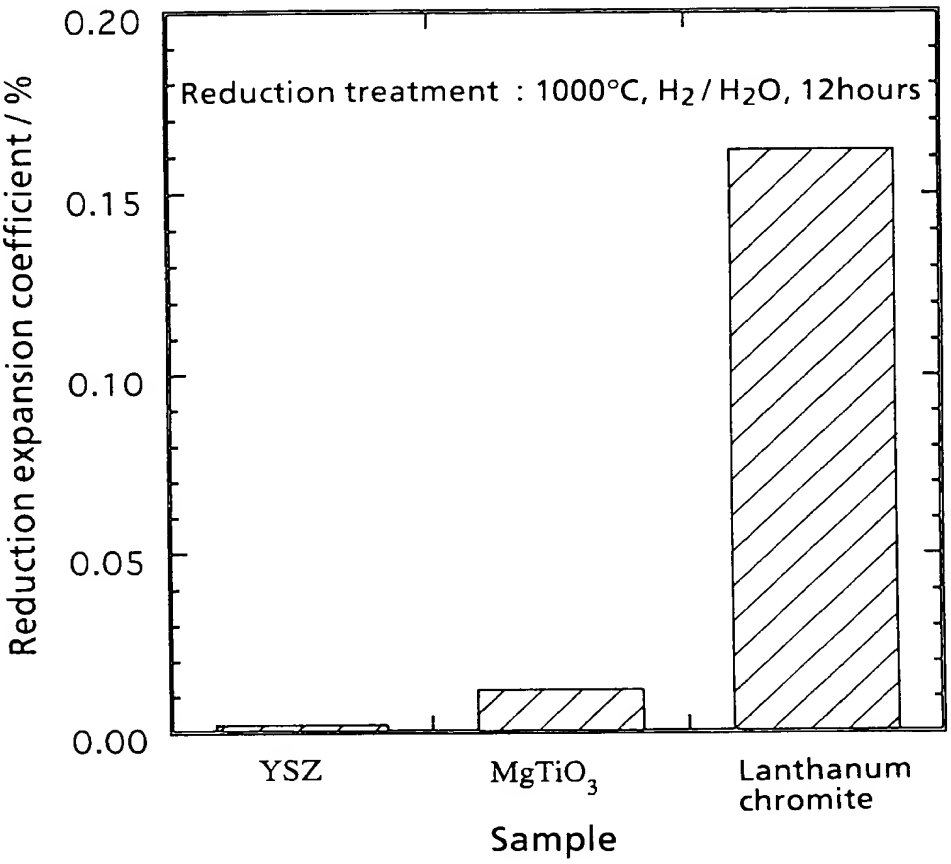


FIG. 8

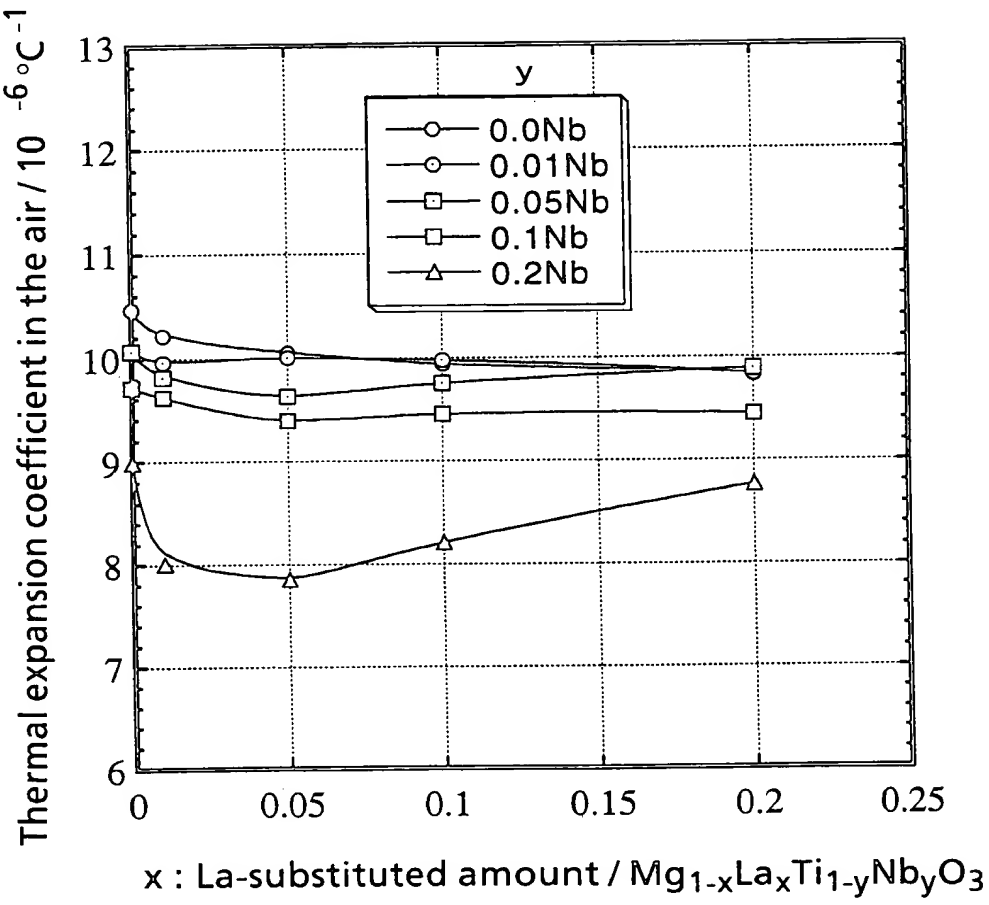


FIG. 9

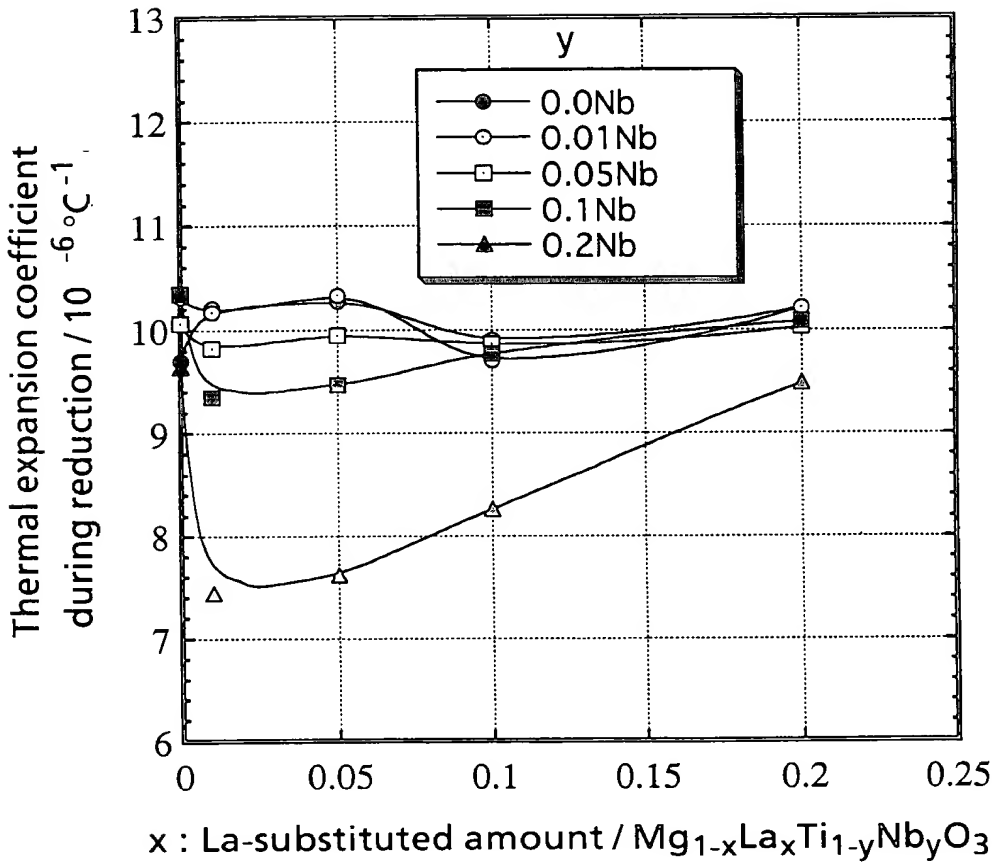


FIG. 10

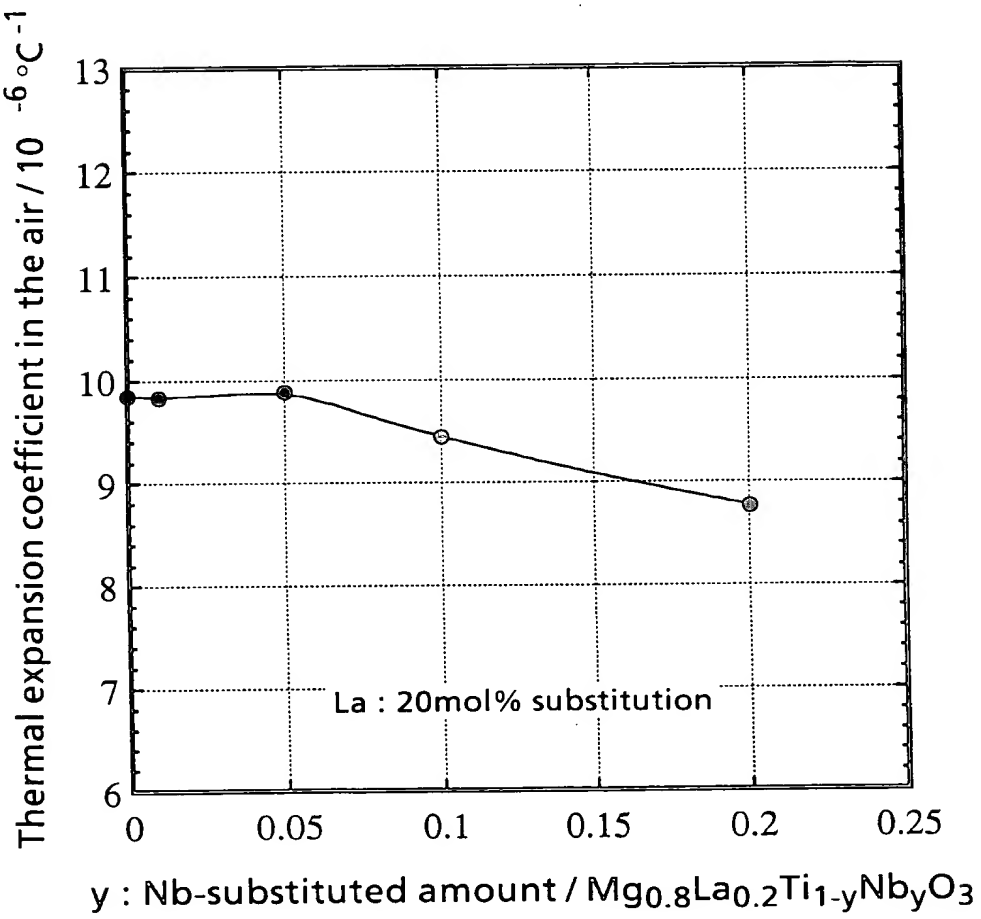


FIG. 11

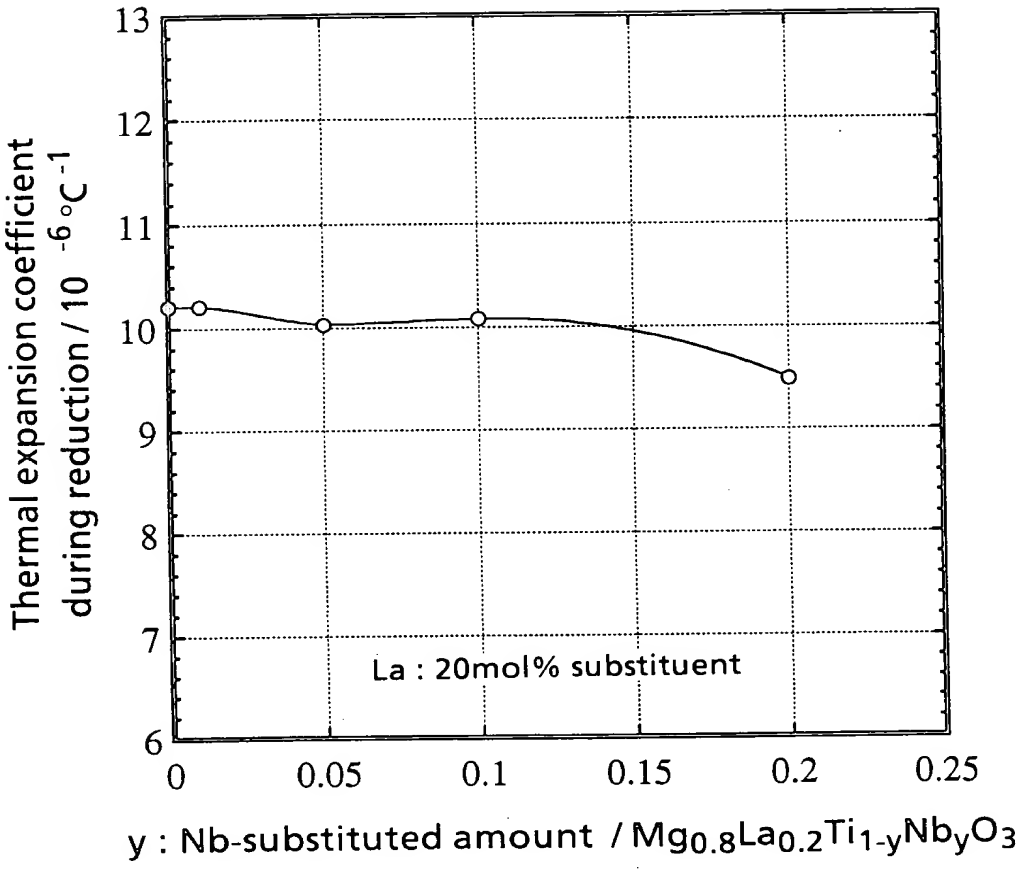


FIG. 12

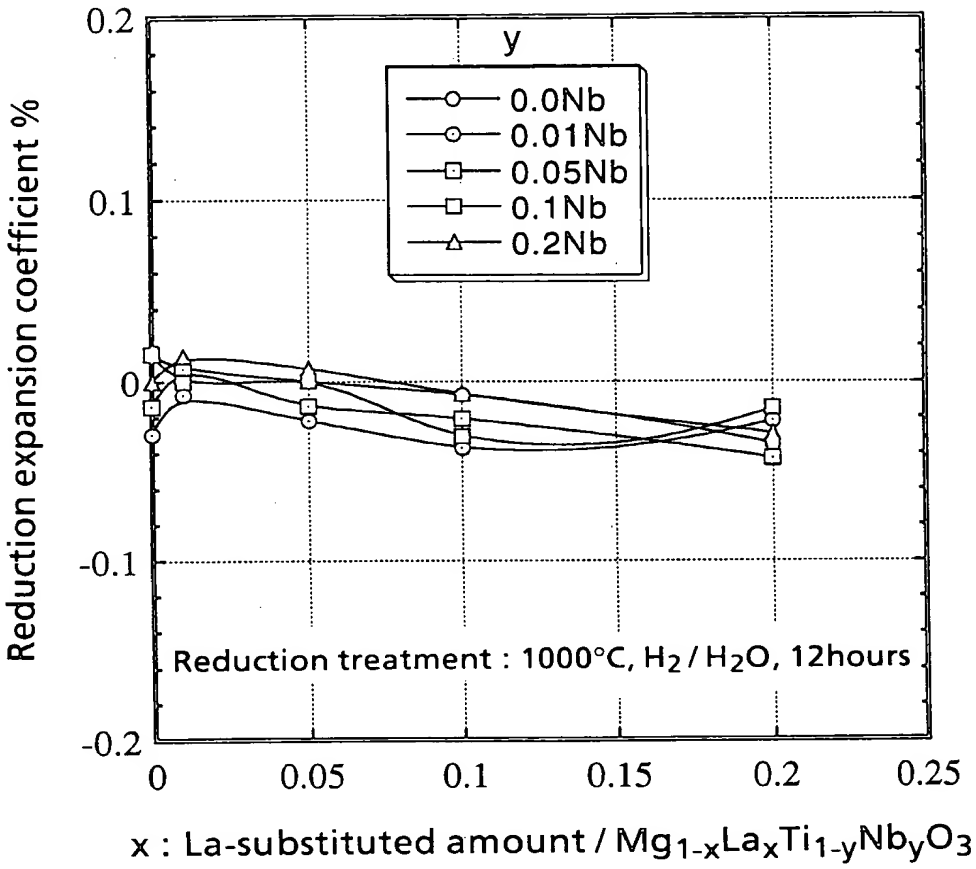


FIG. 13

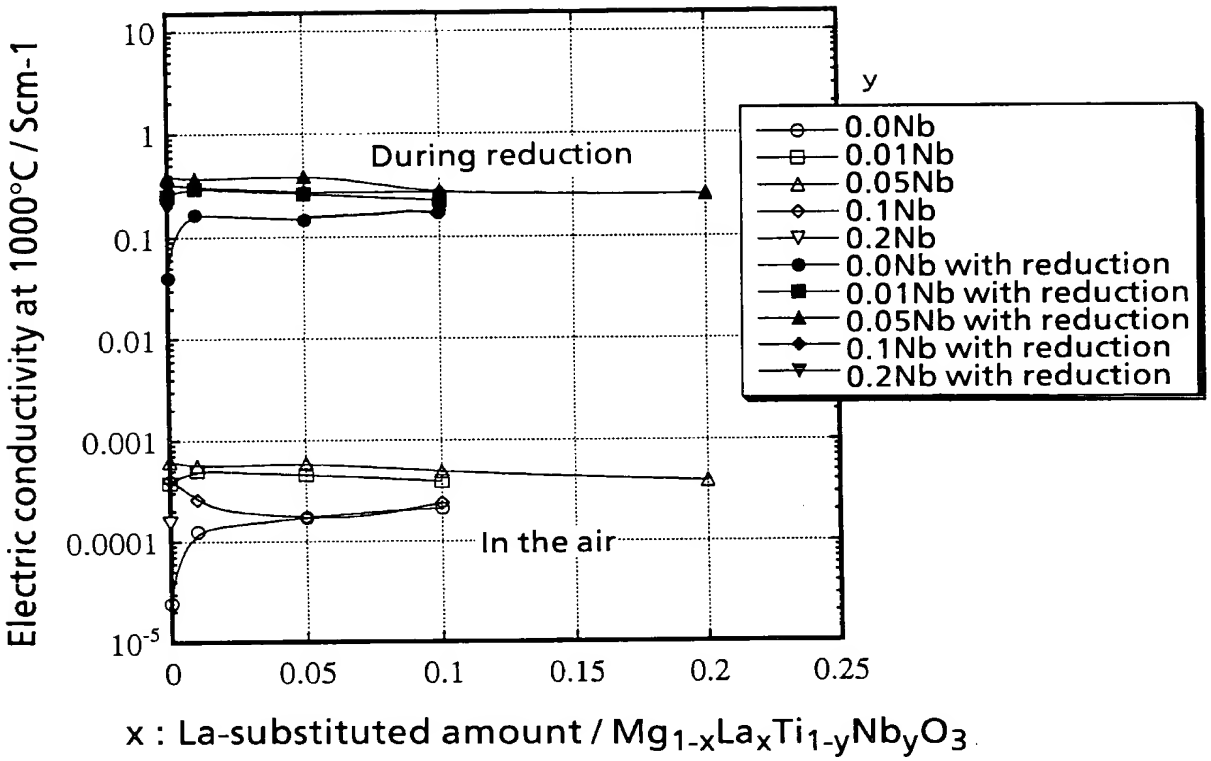


FIG. 14

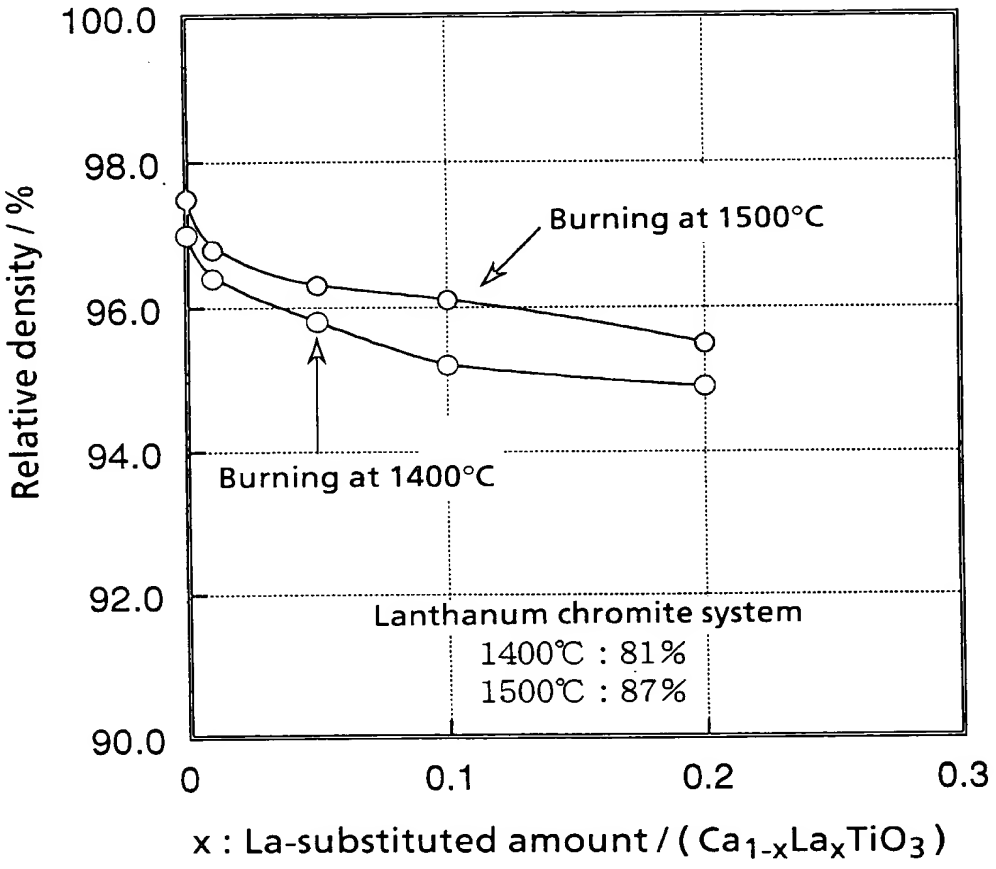


FIG. 15

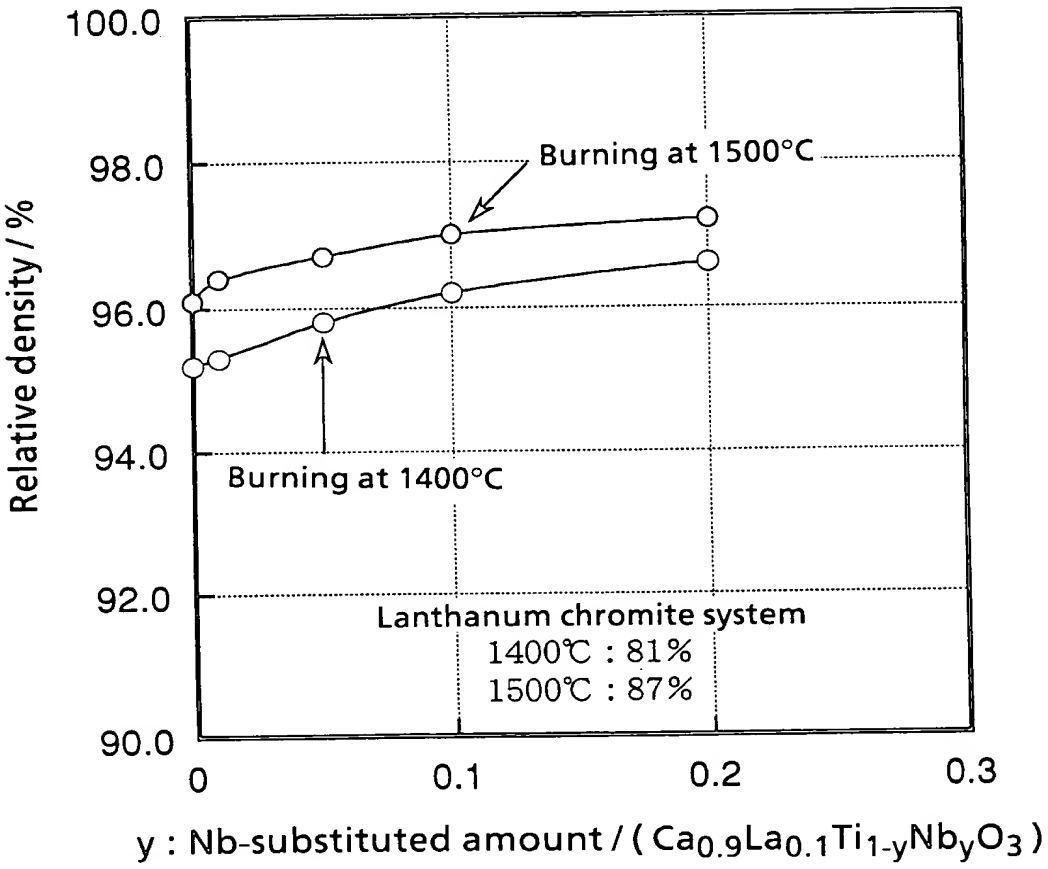


FIG. 16

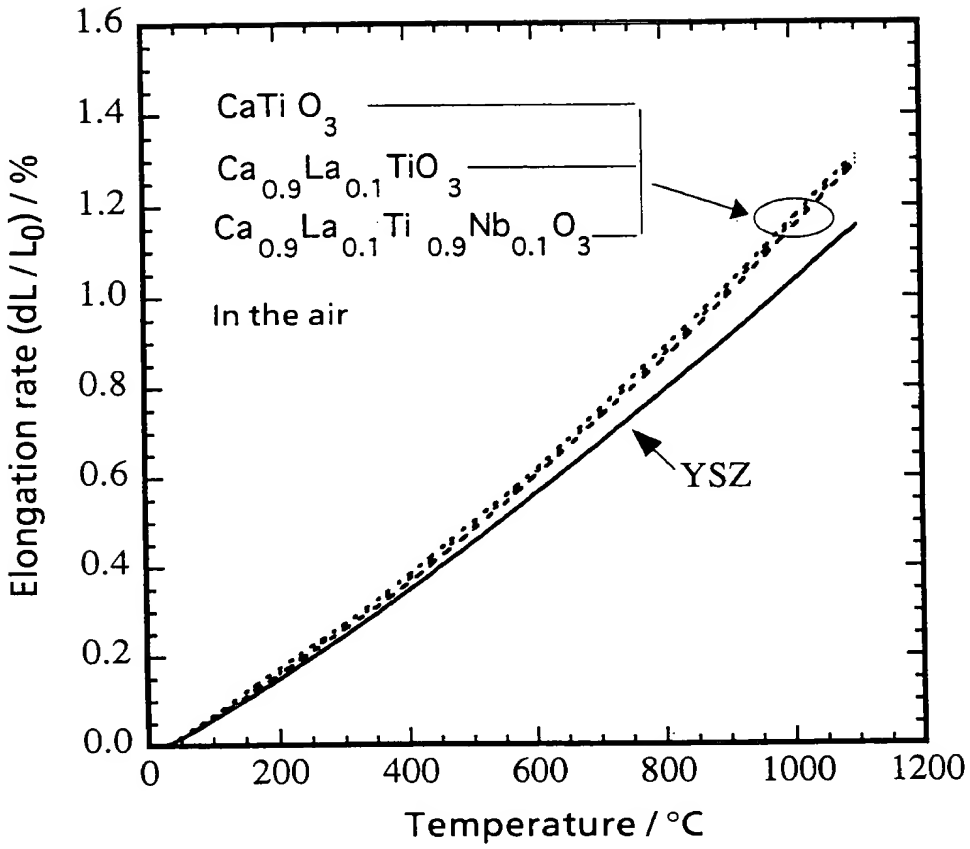


FIG. 17

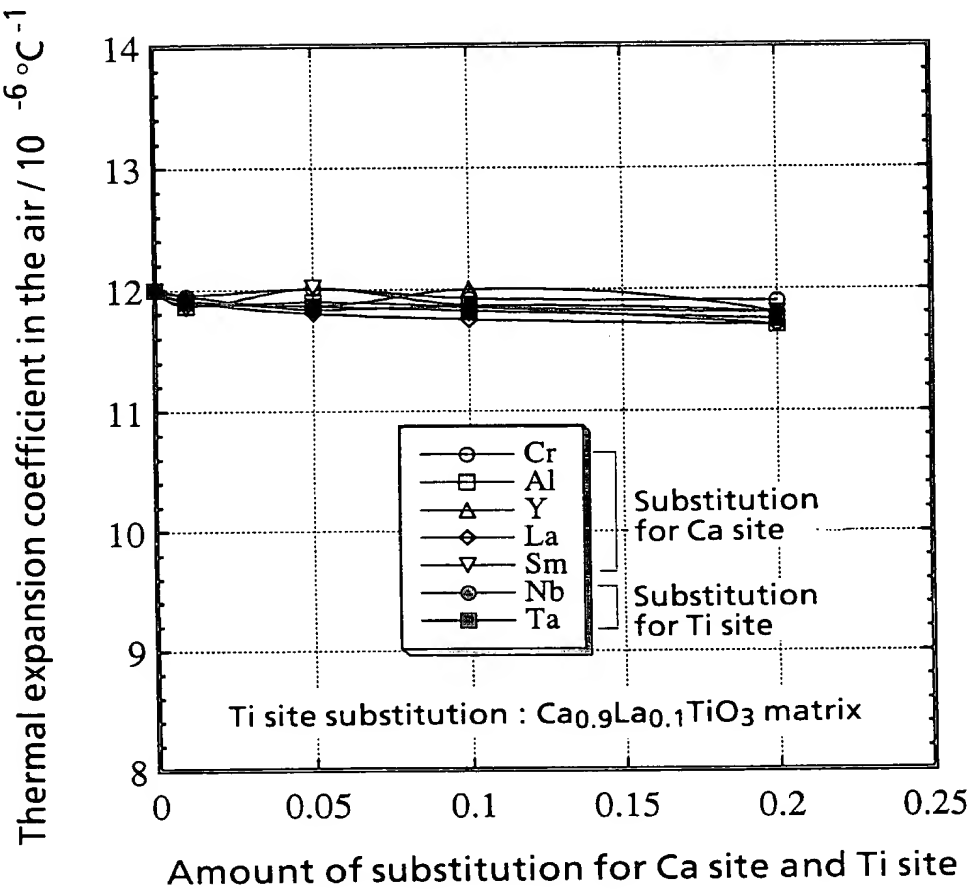


FIG. 18

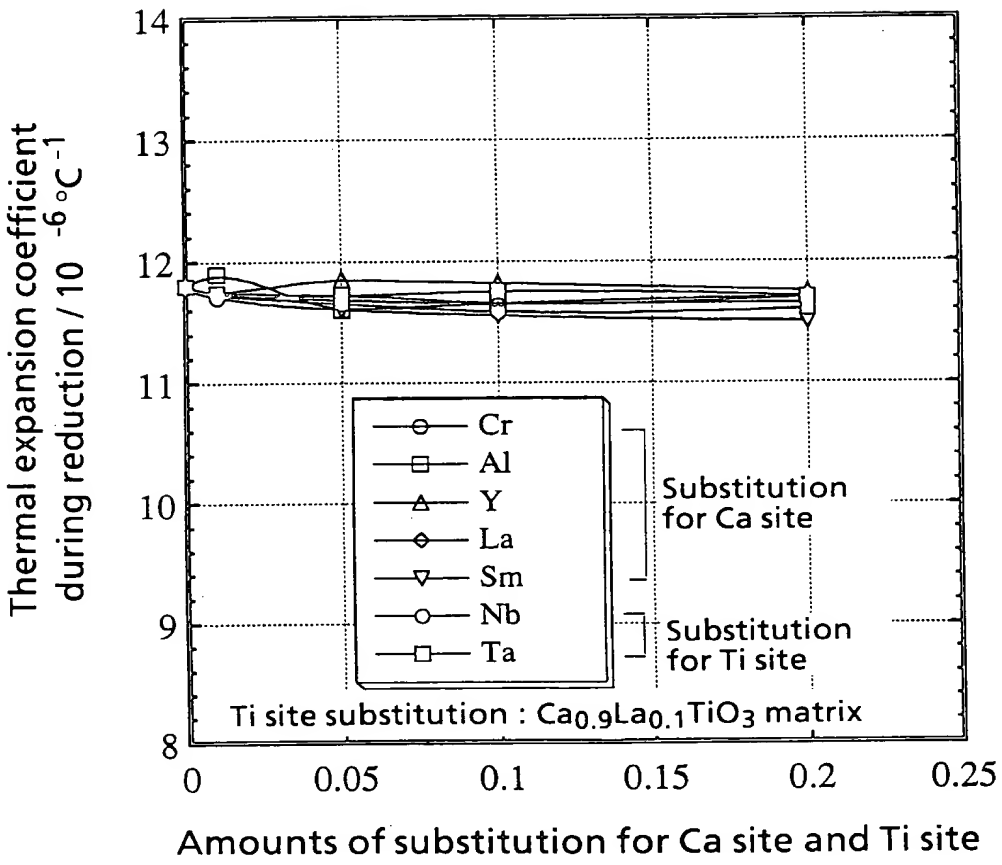


FIG. 19

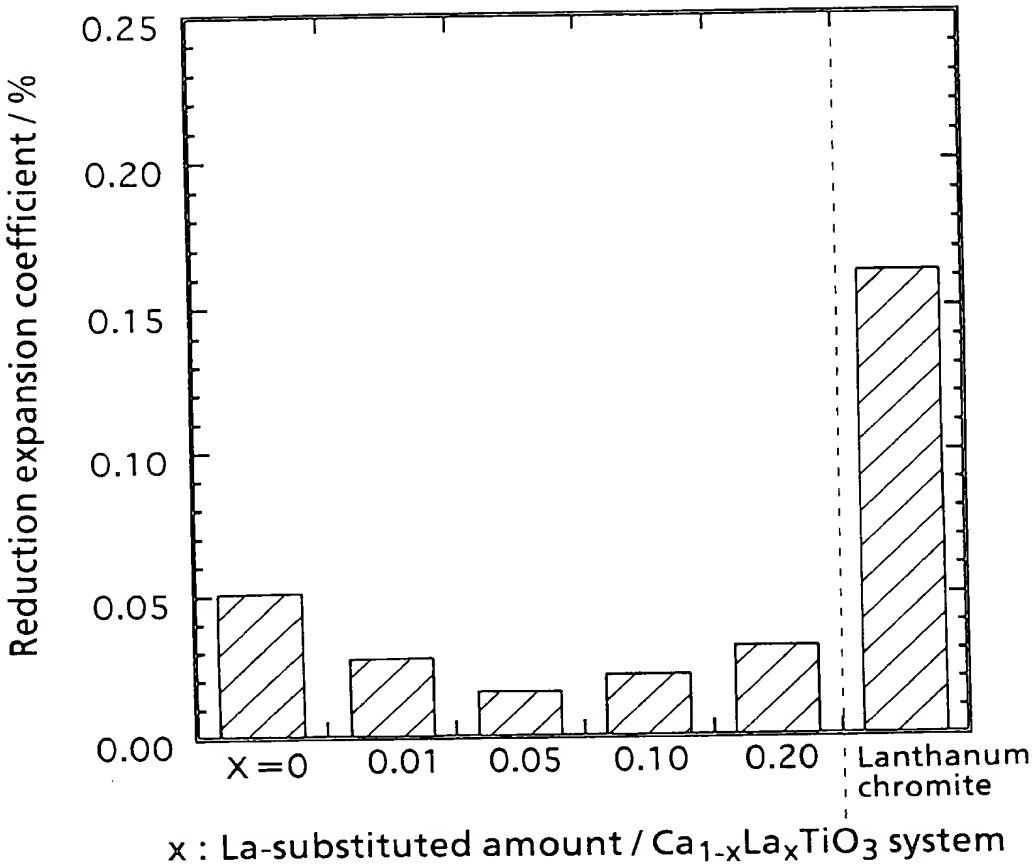


FIG. 20

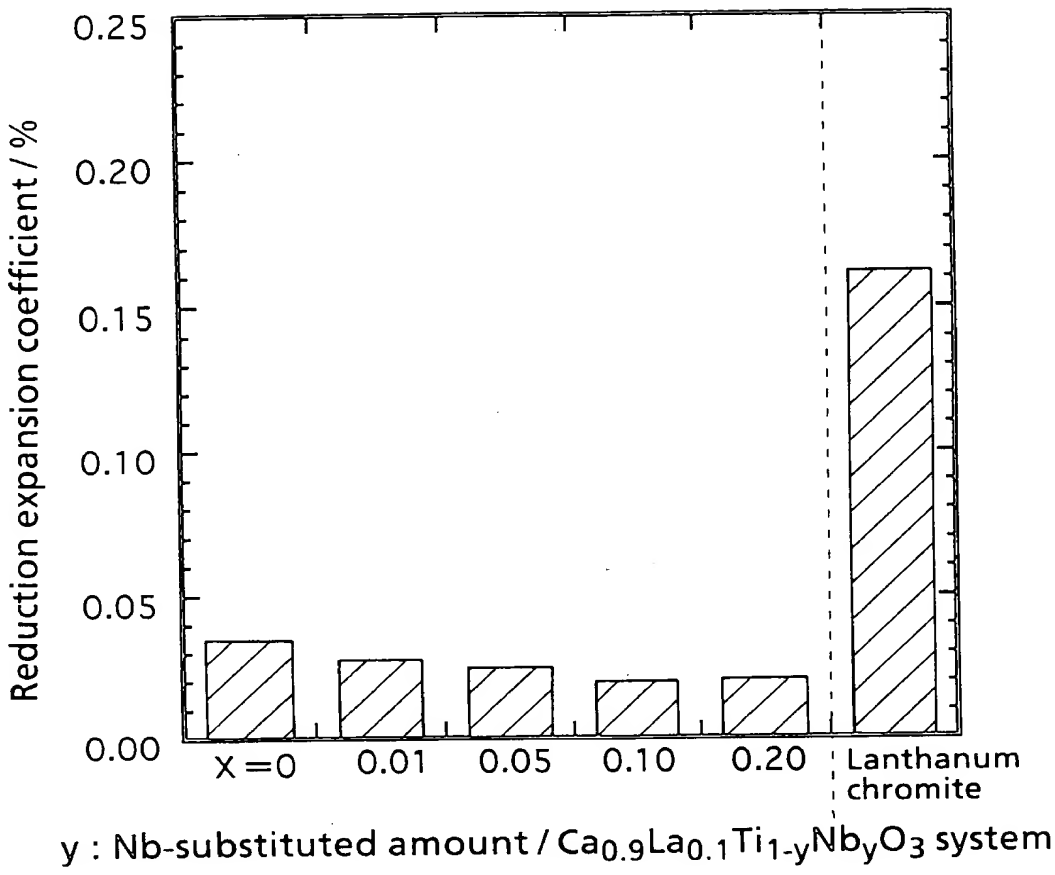


FIG. 21

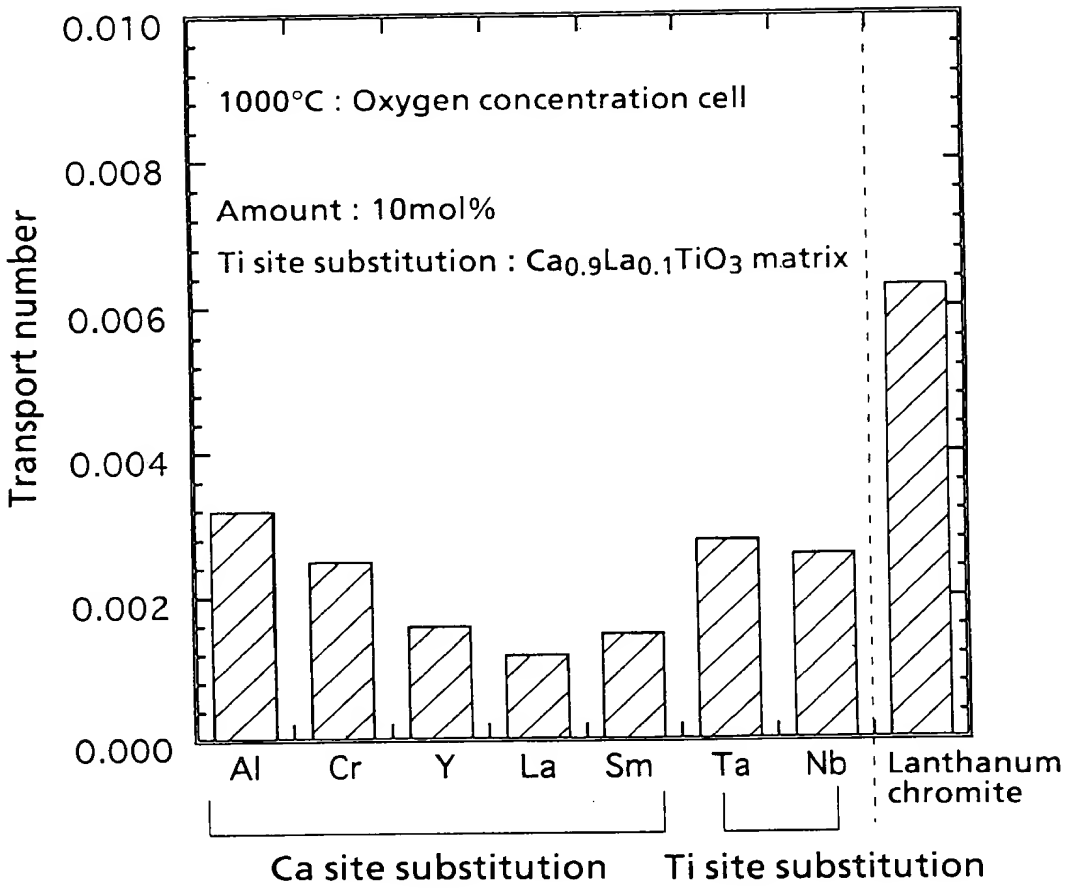


FIG. 22

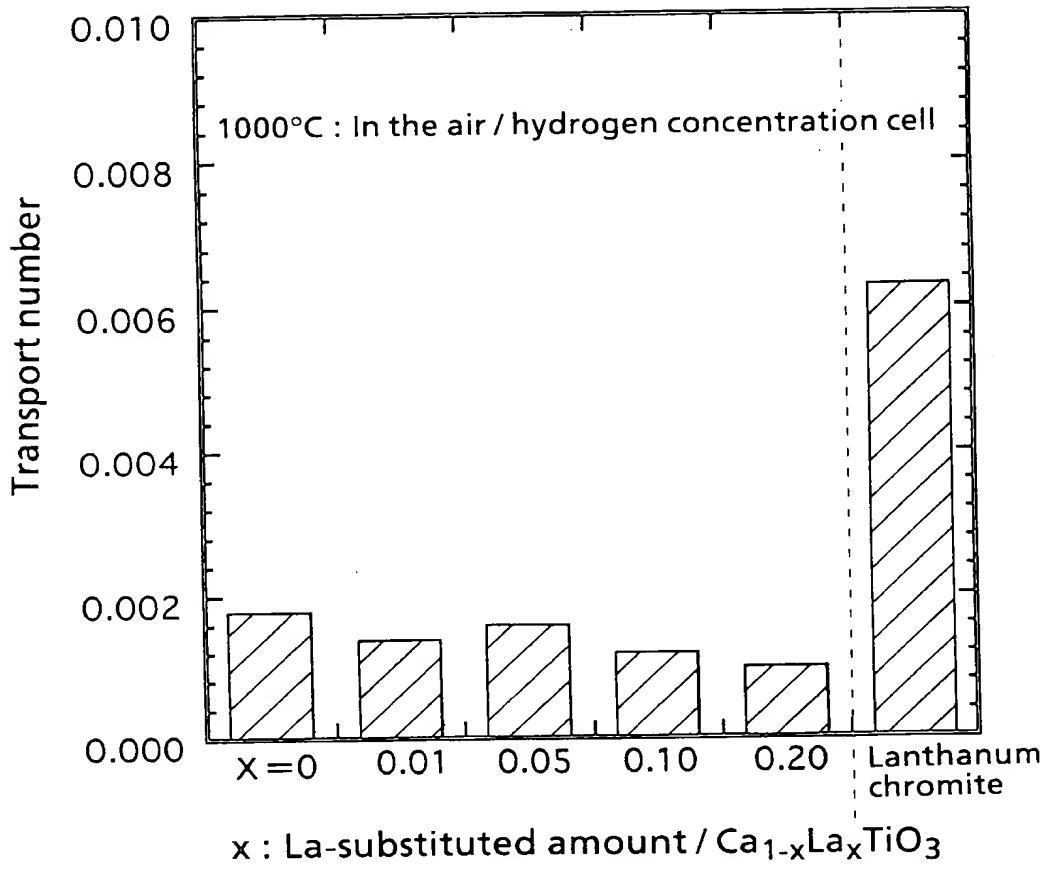


FIG. 23

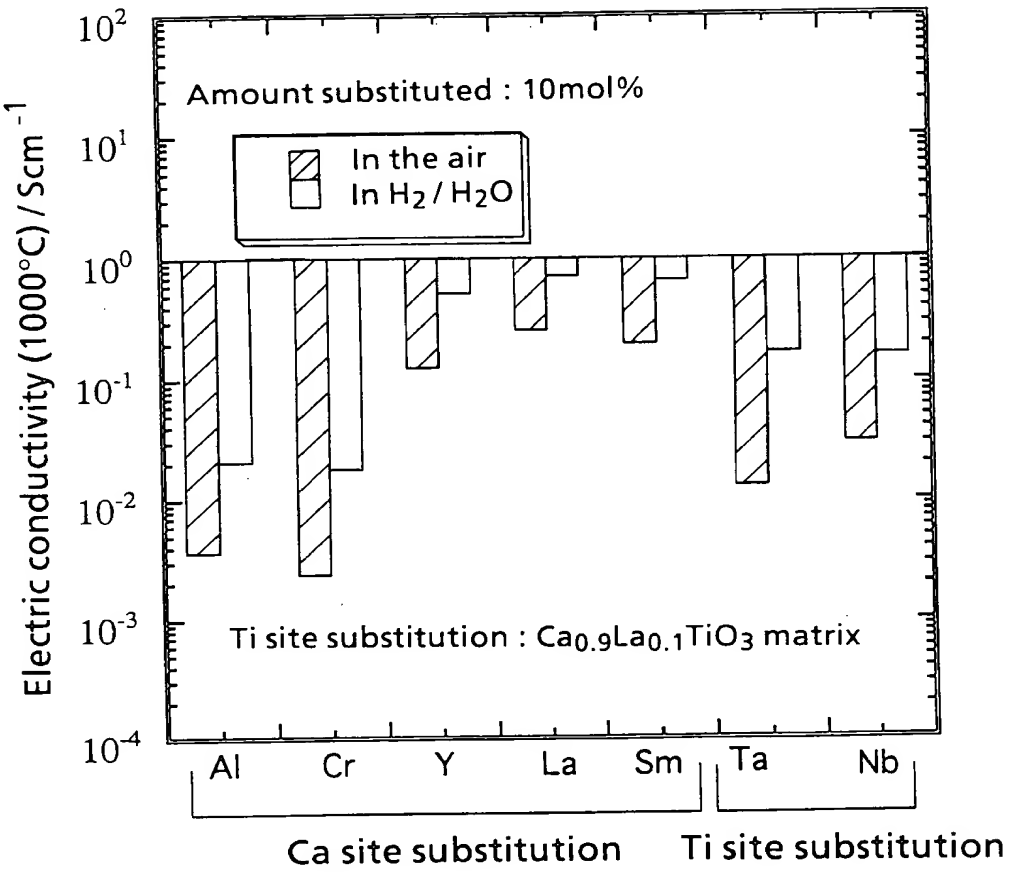


FIG. 24

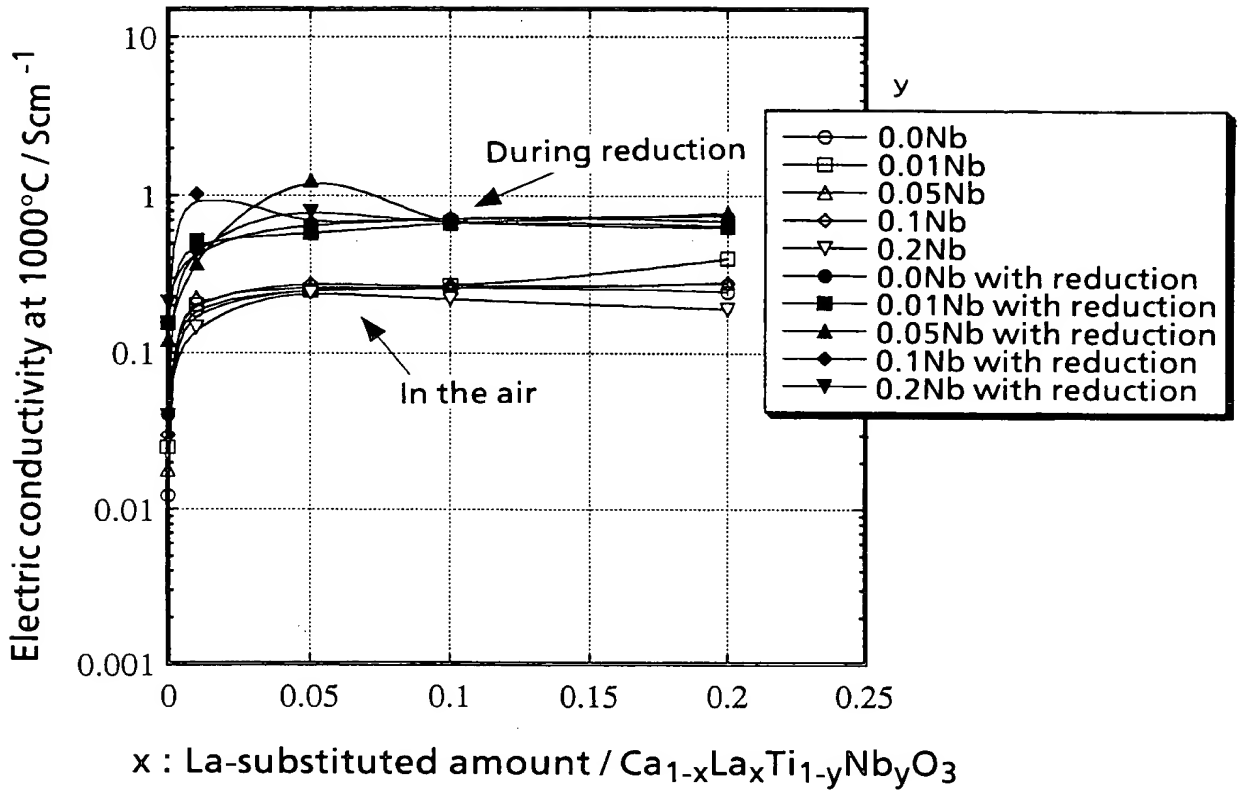


FIG. 25

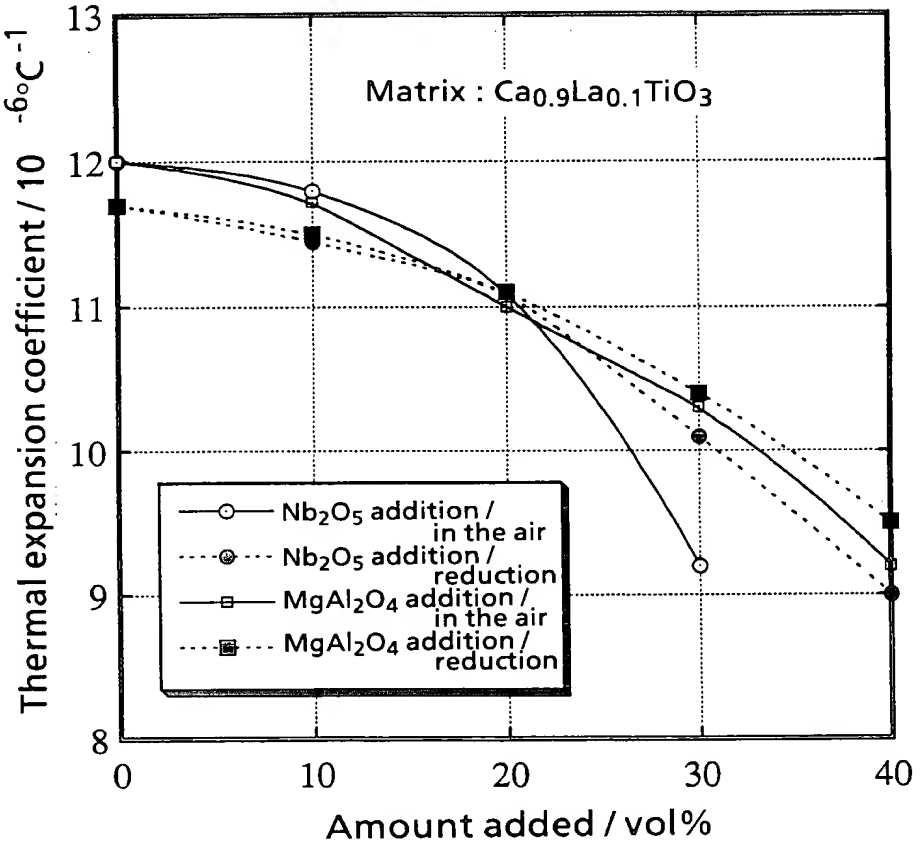


FIG. 26

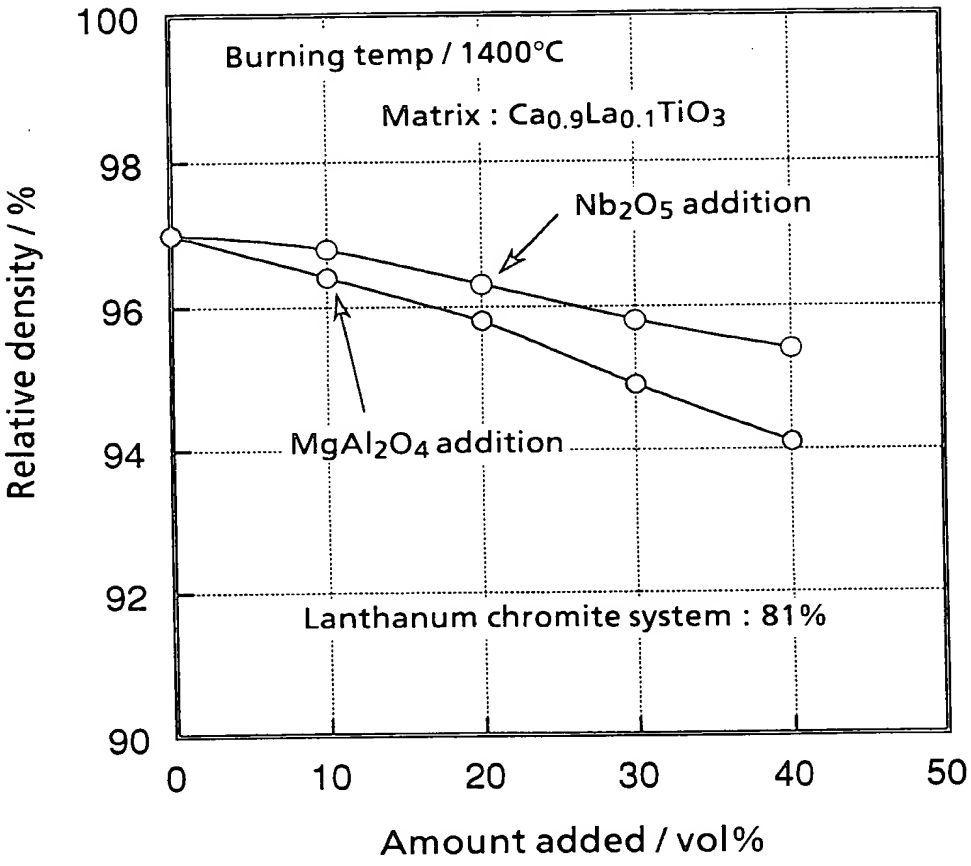


FIG. 27

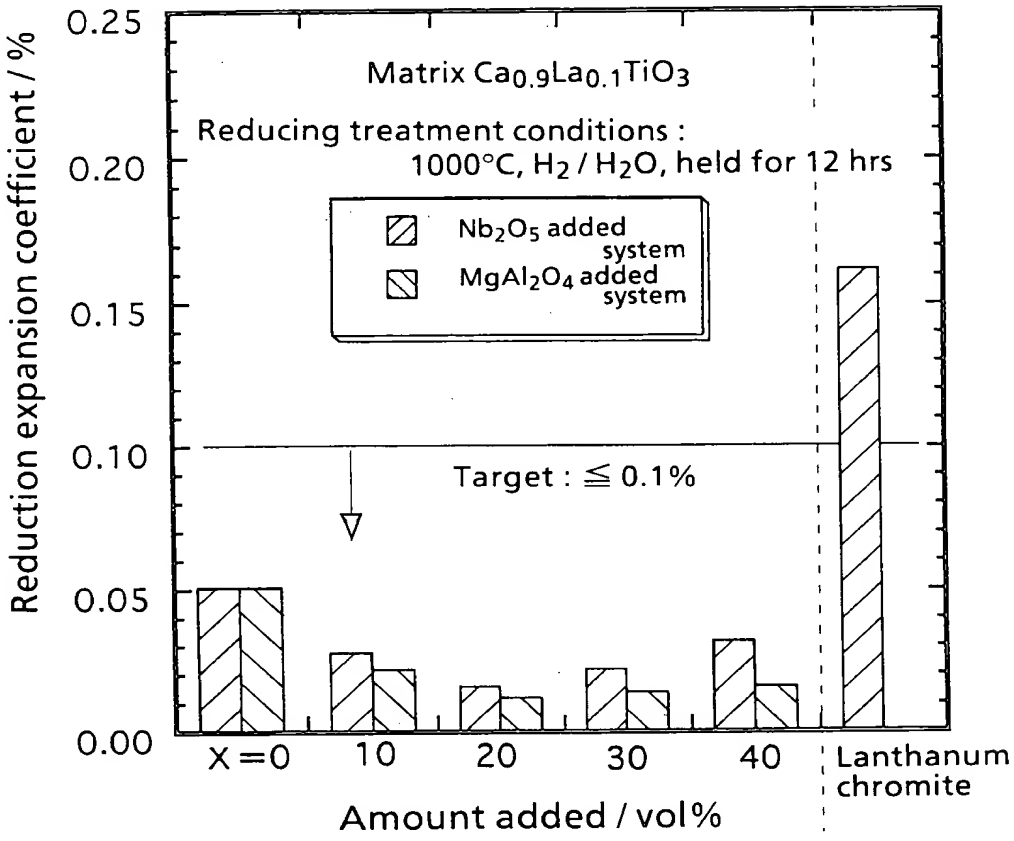


FIG. 28

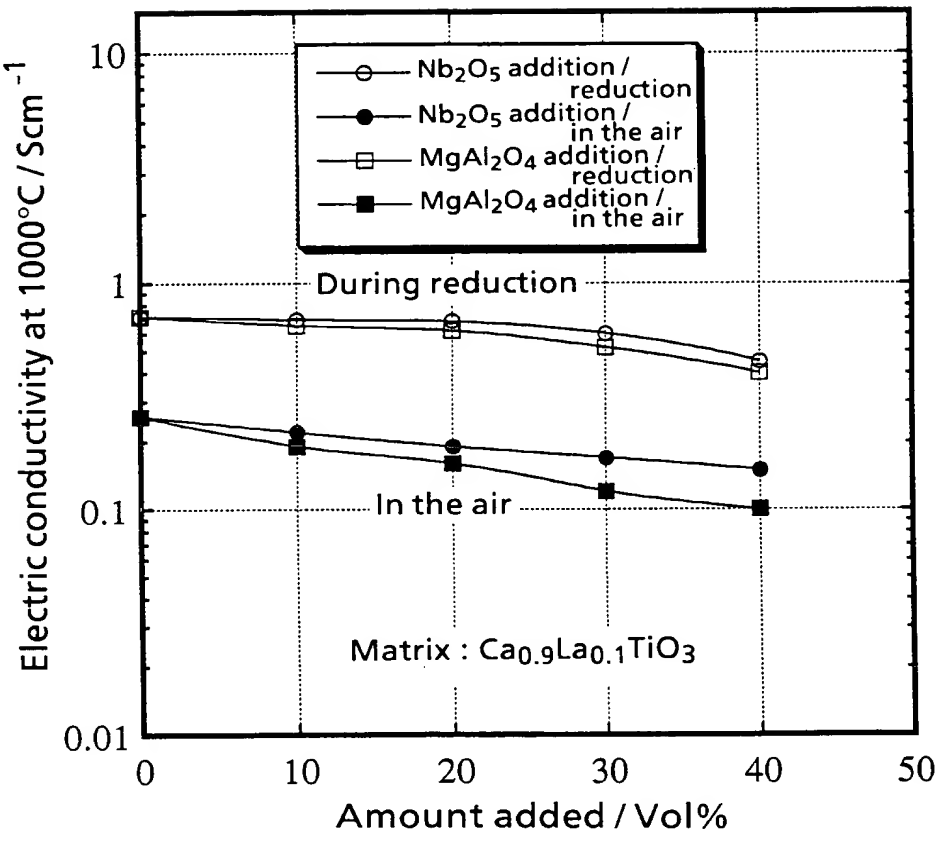


FIG. 29

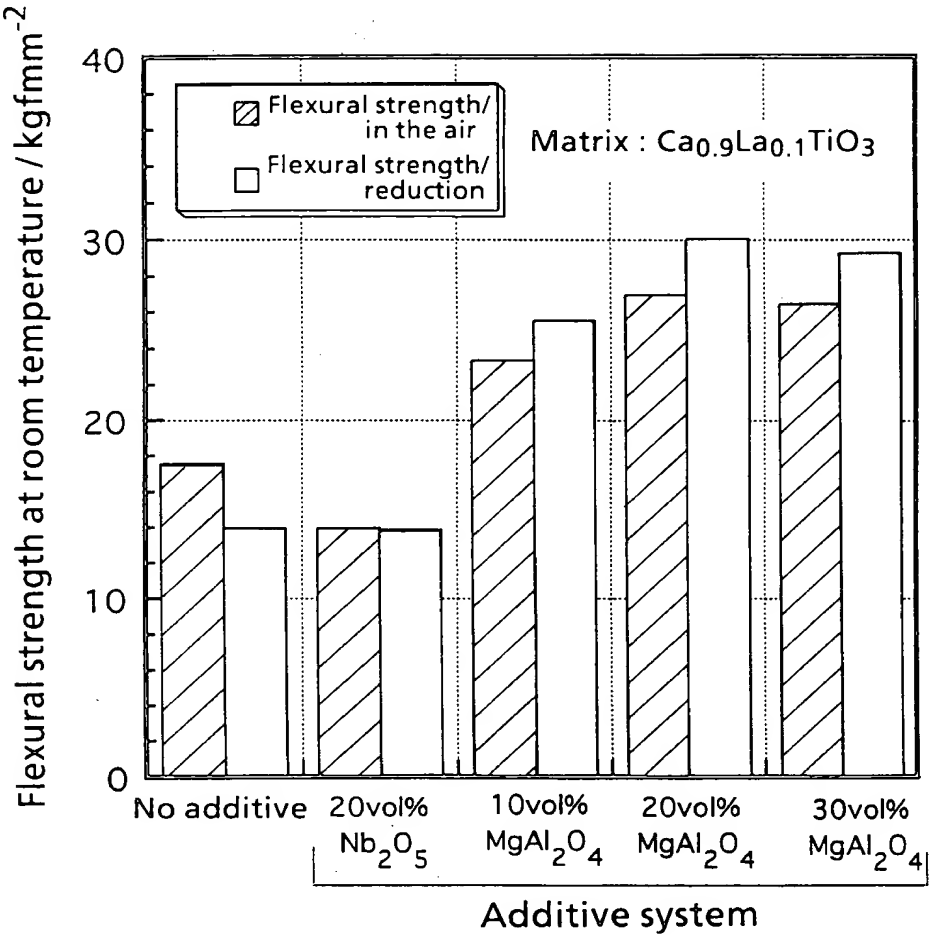


FIG. 30

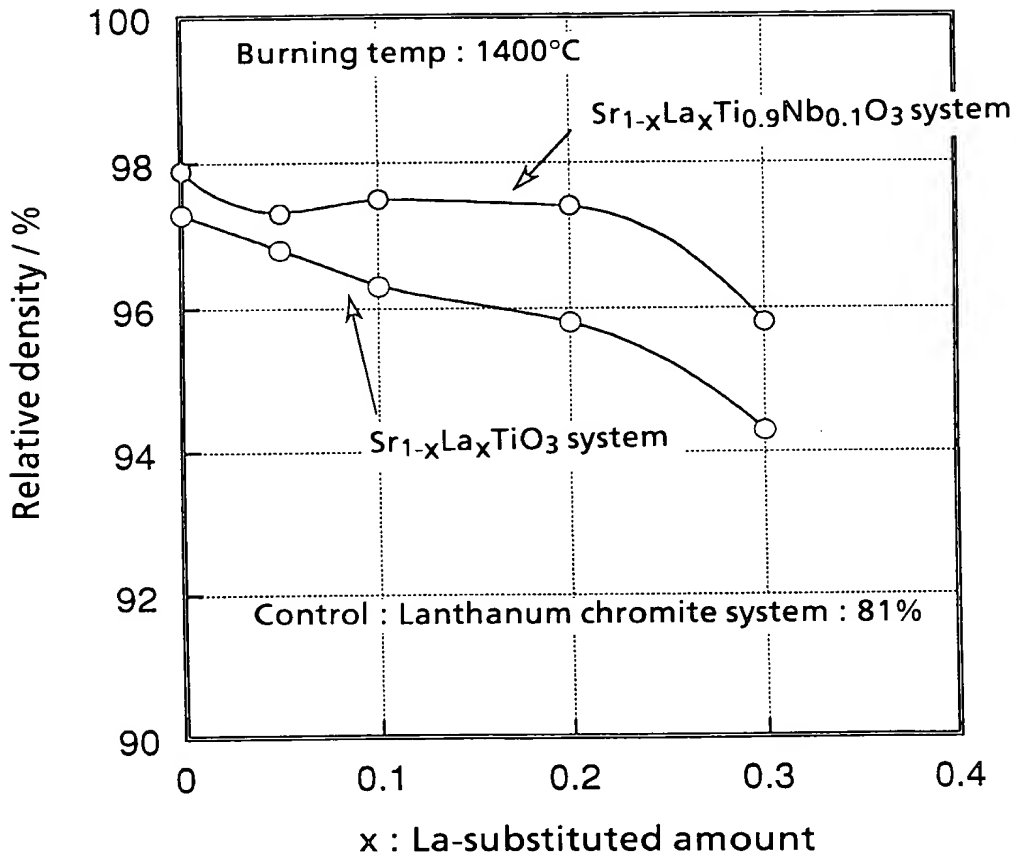


FIG. 31

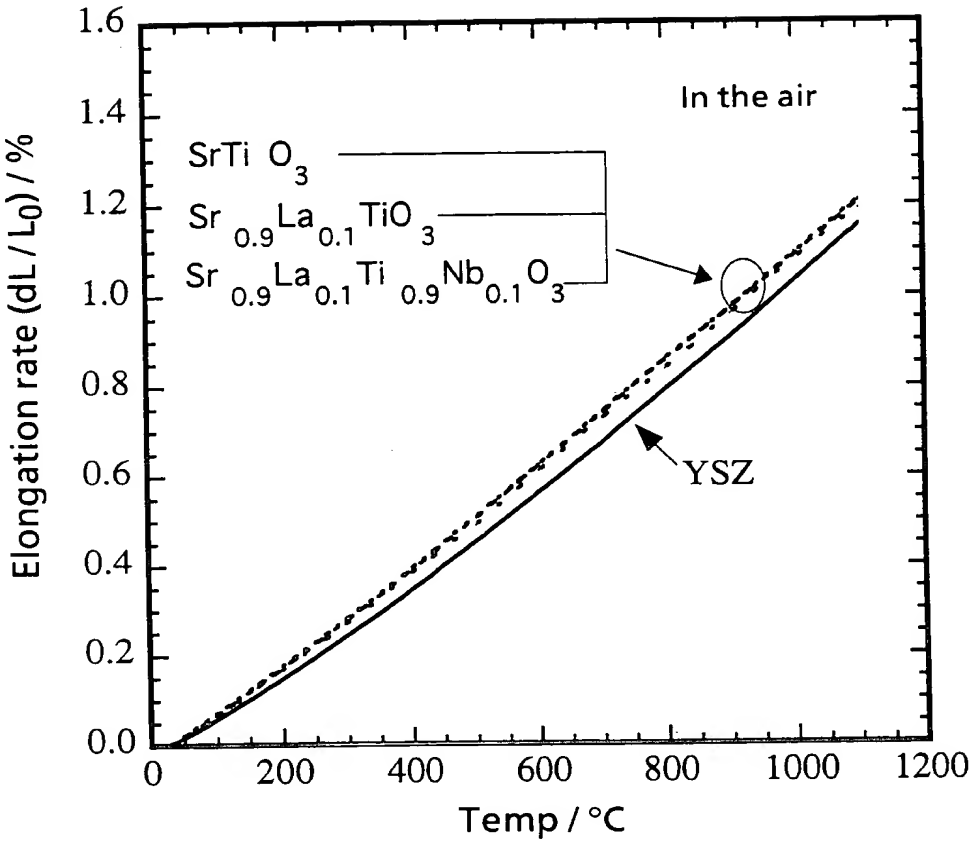


FIG. 32

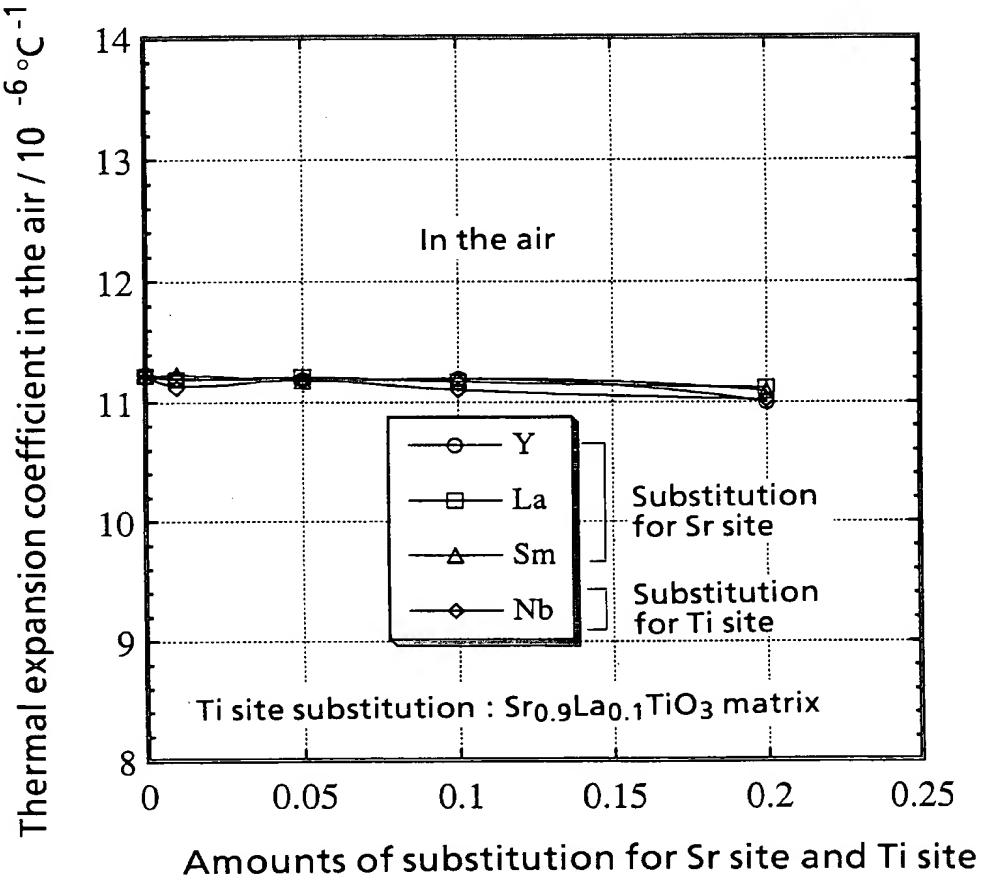


FIG. 33

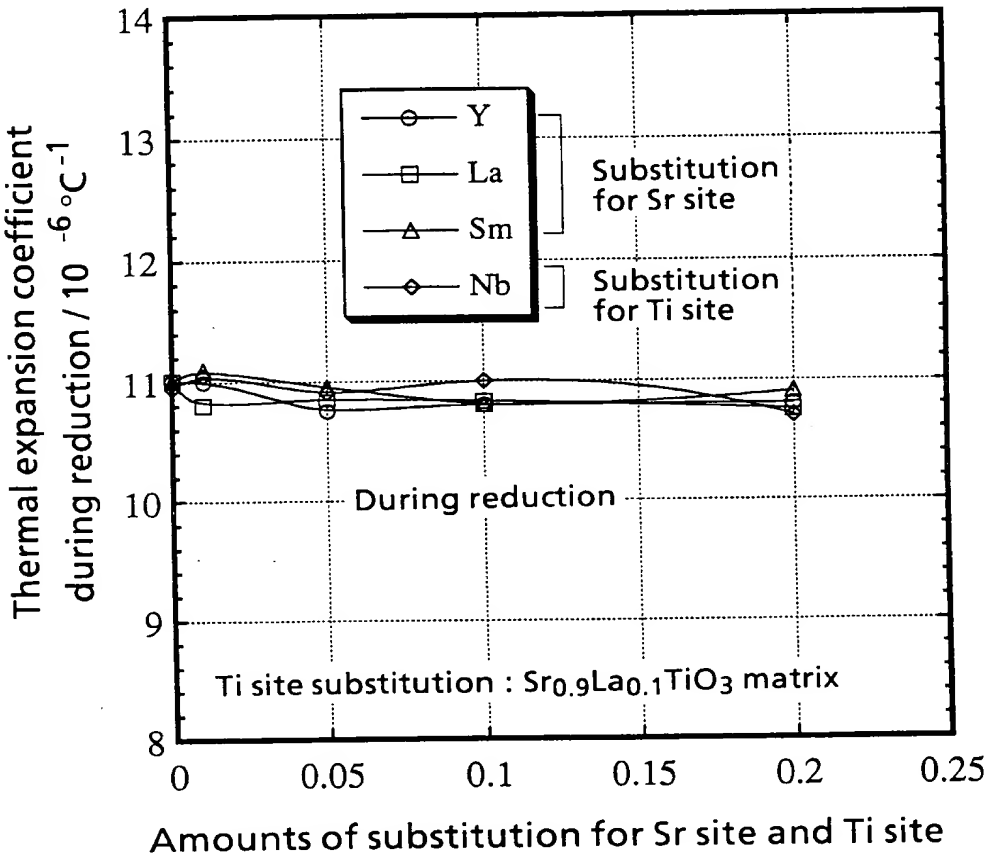


FIG. 34

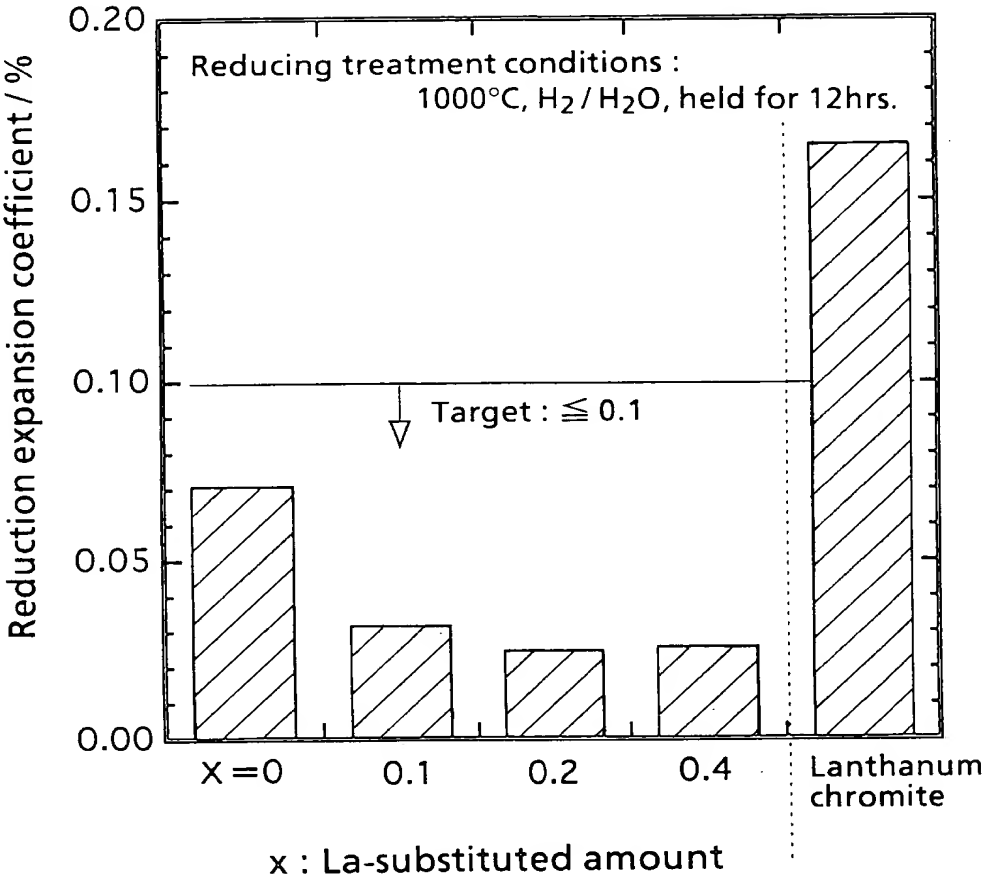


FIG. 35

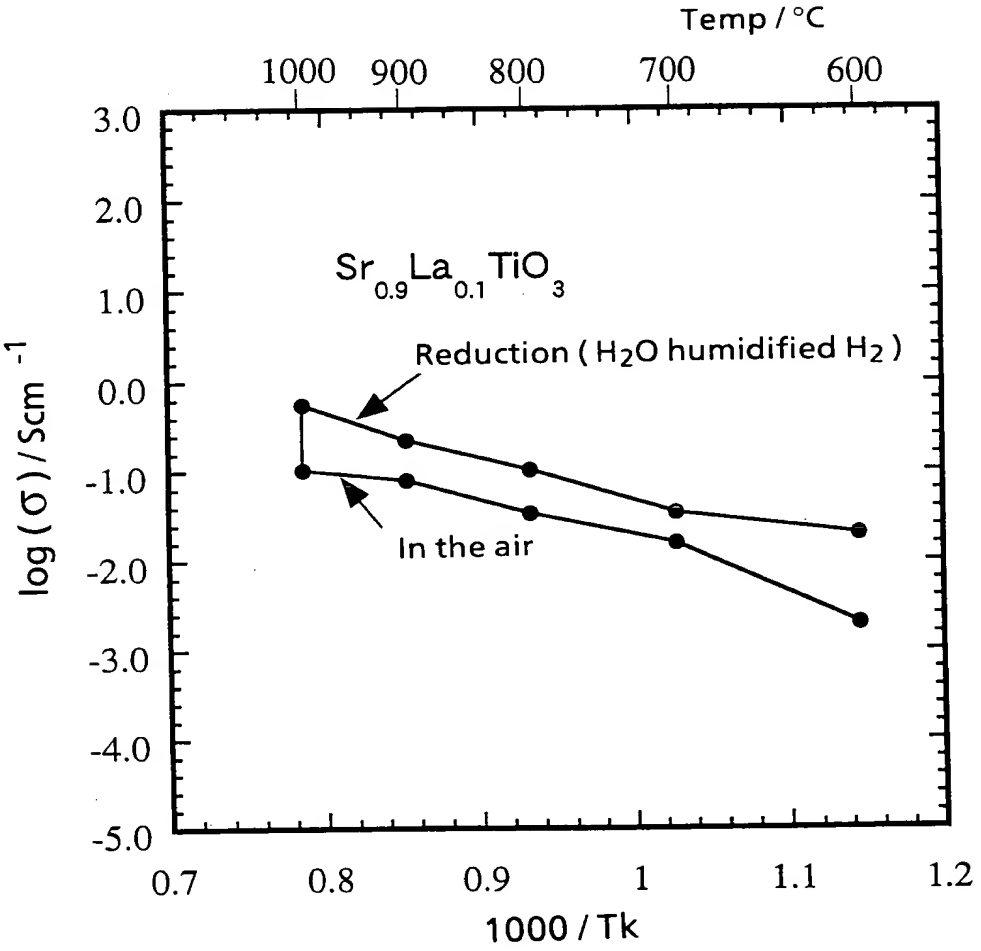


FIG. 36

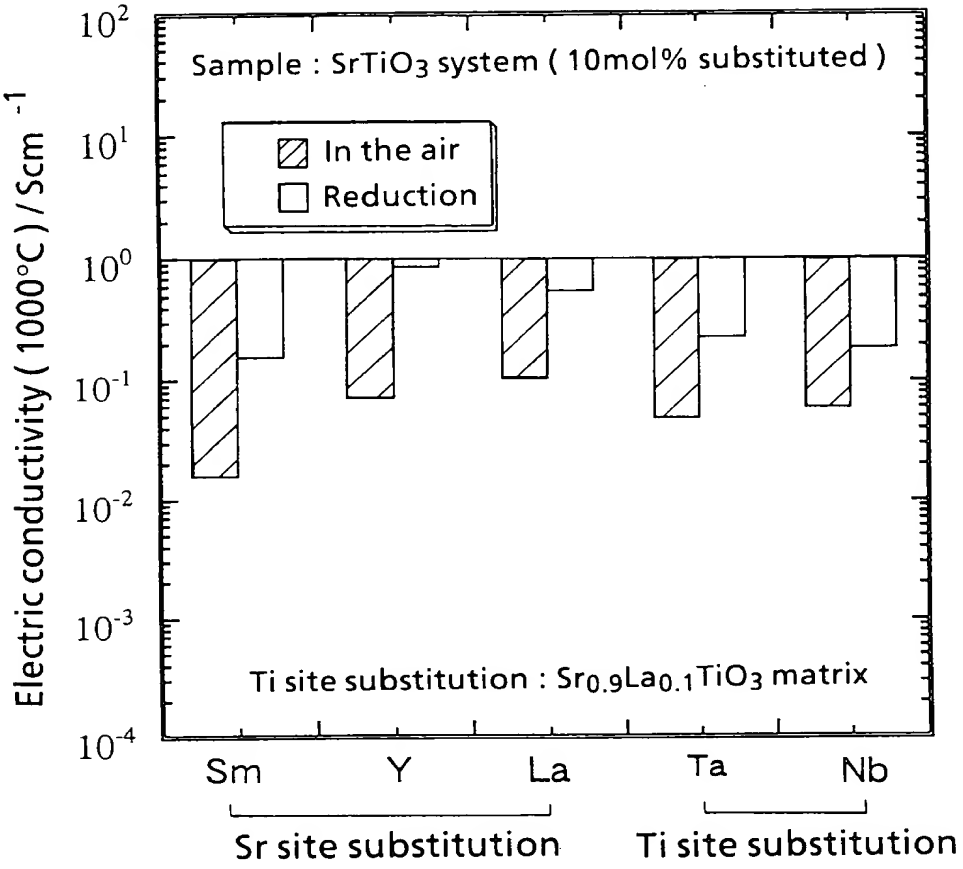


FIG. 37

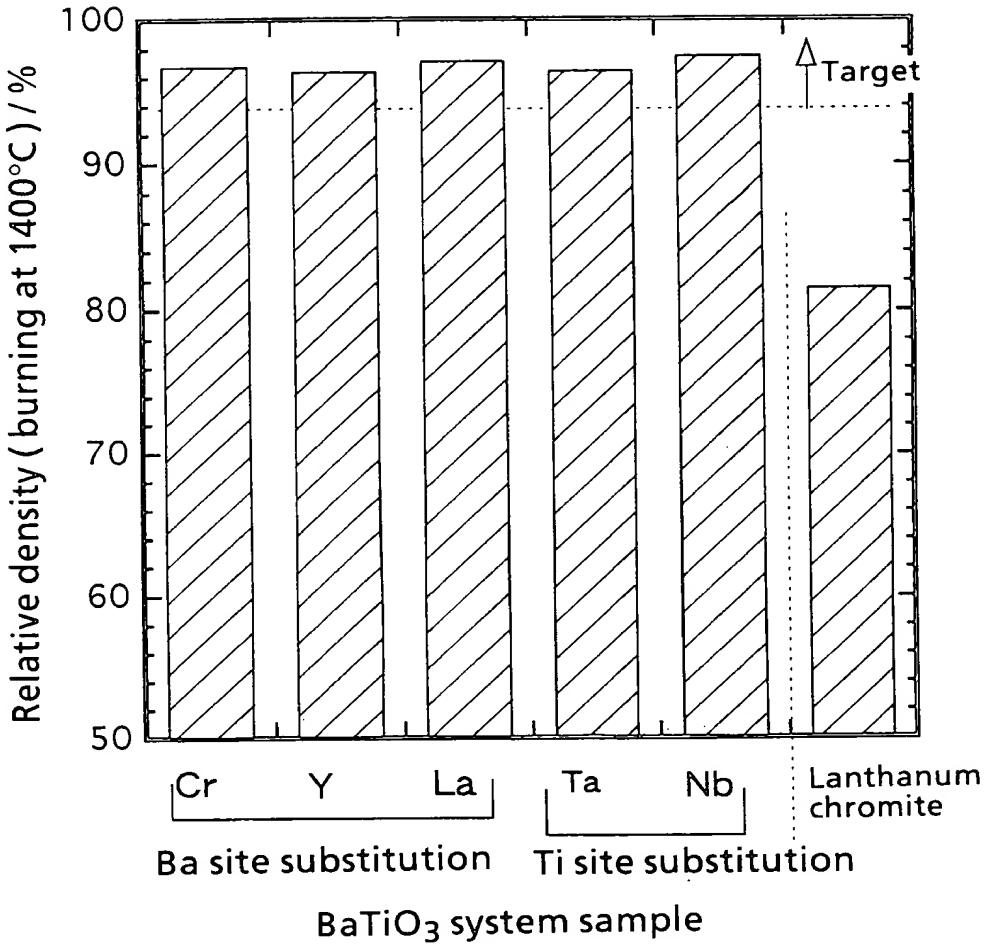


FIG. 38

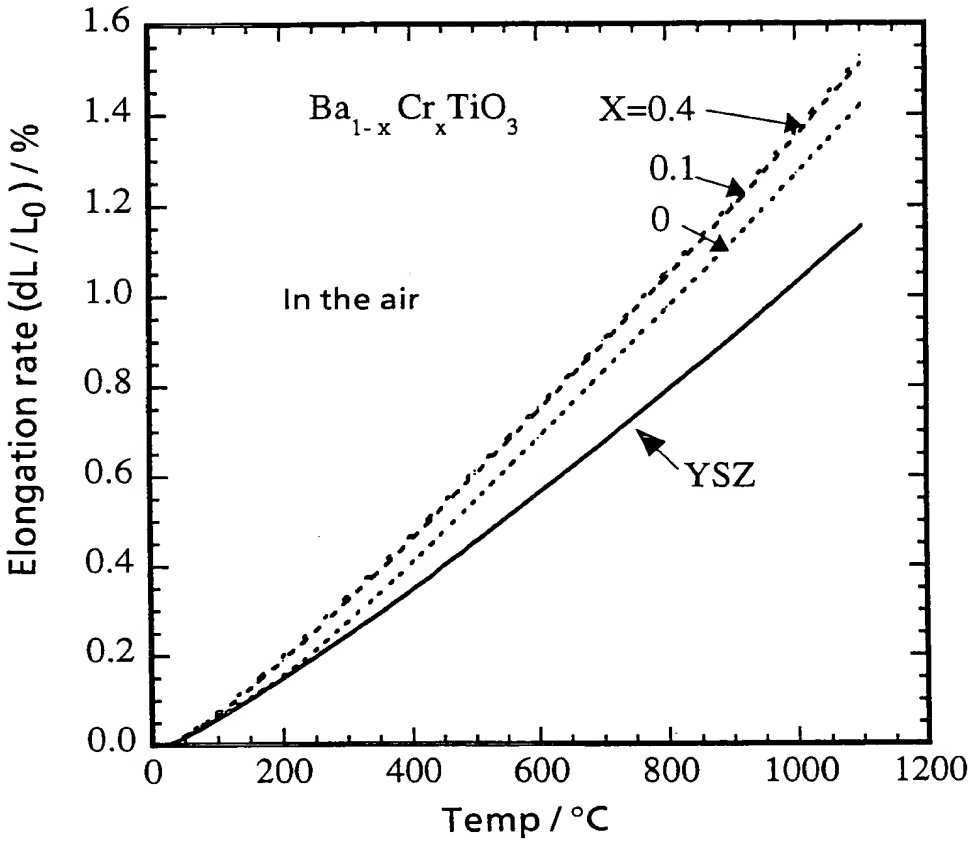


FIG. 39

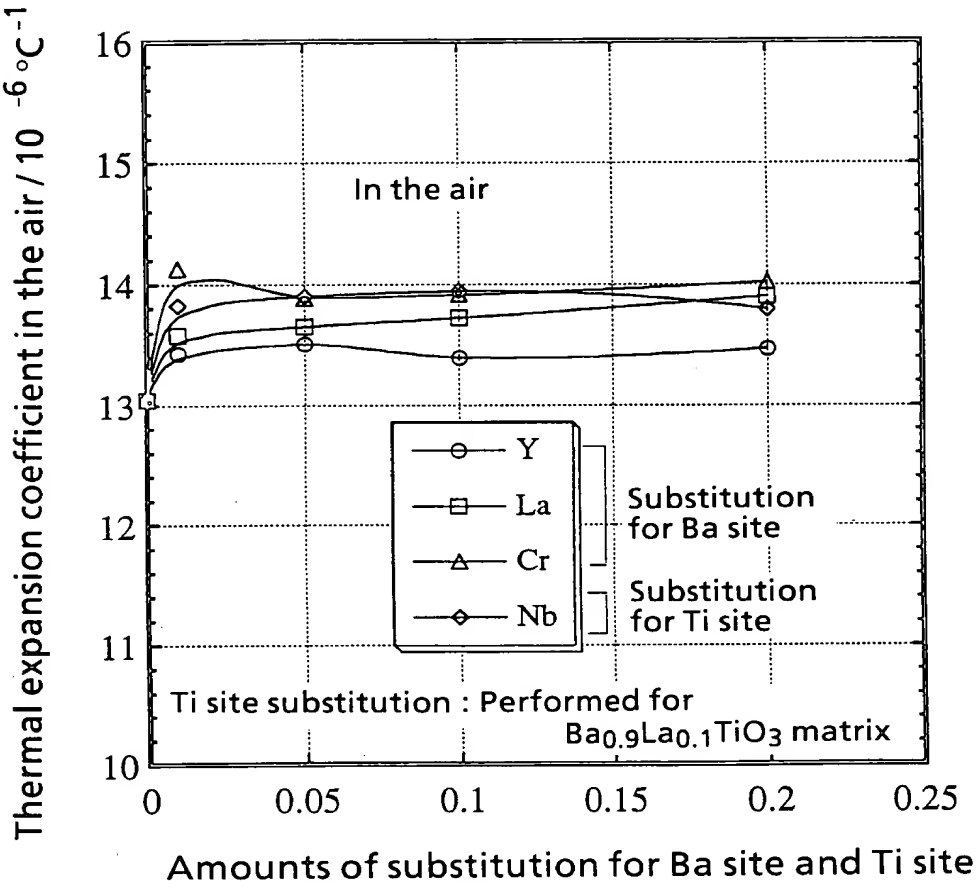


FIG. 40

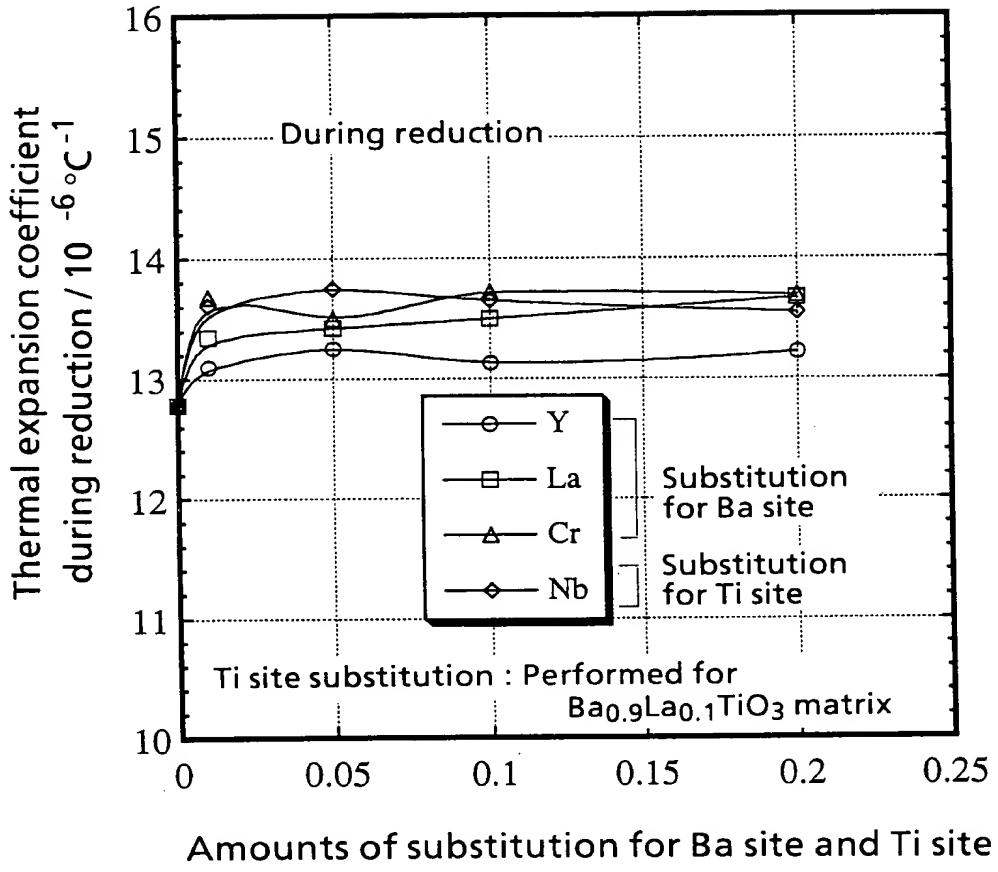


FIG. 41

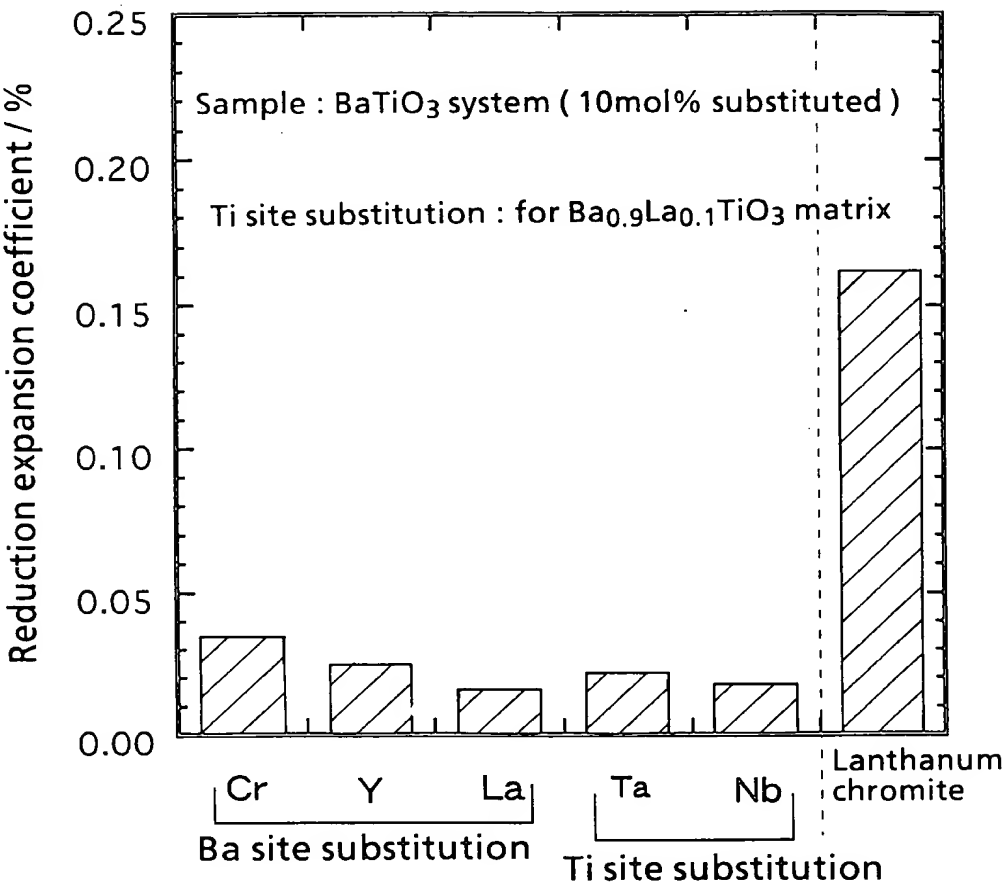


FIG. 42

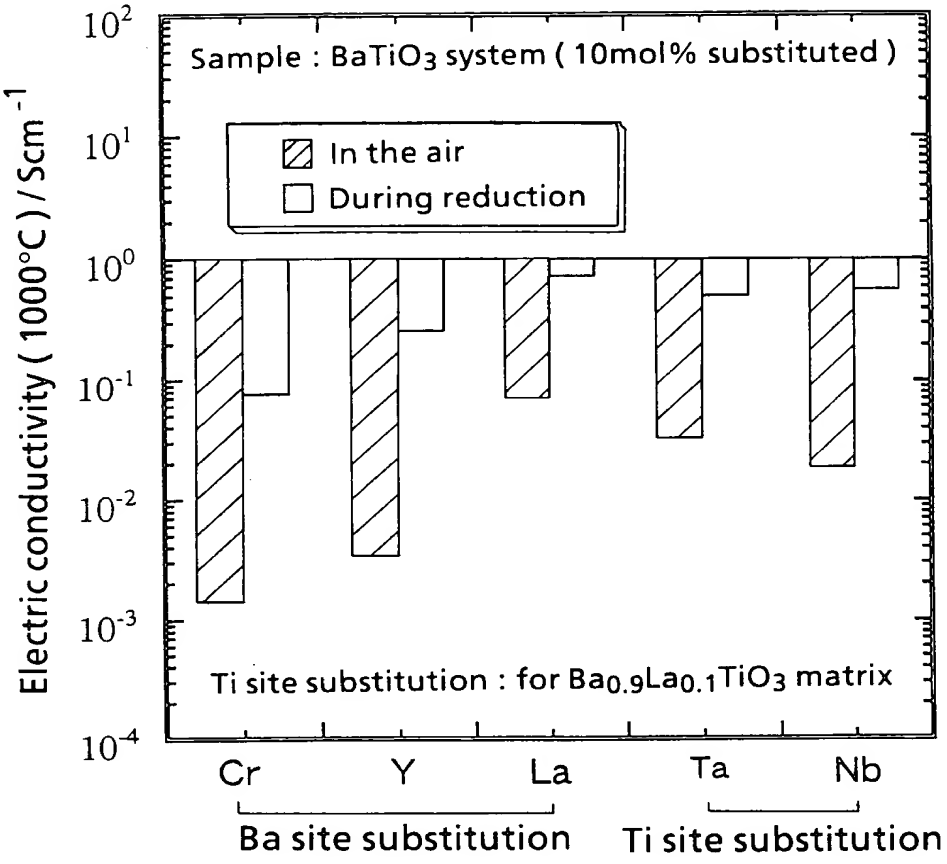


FIG. 43

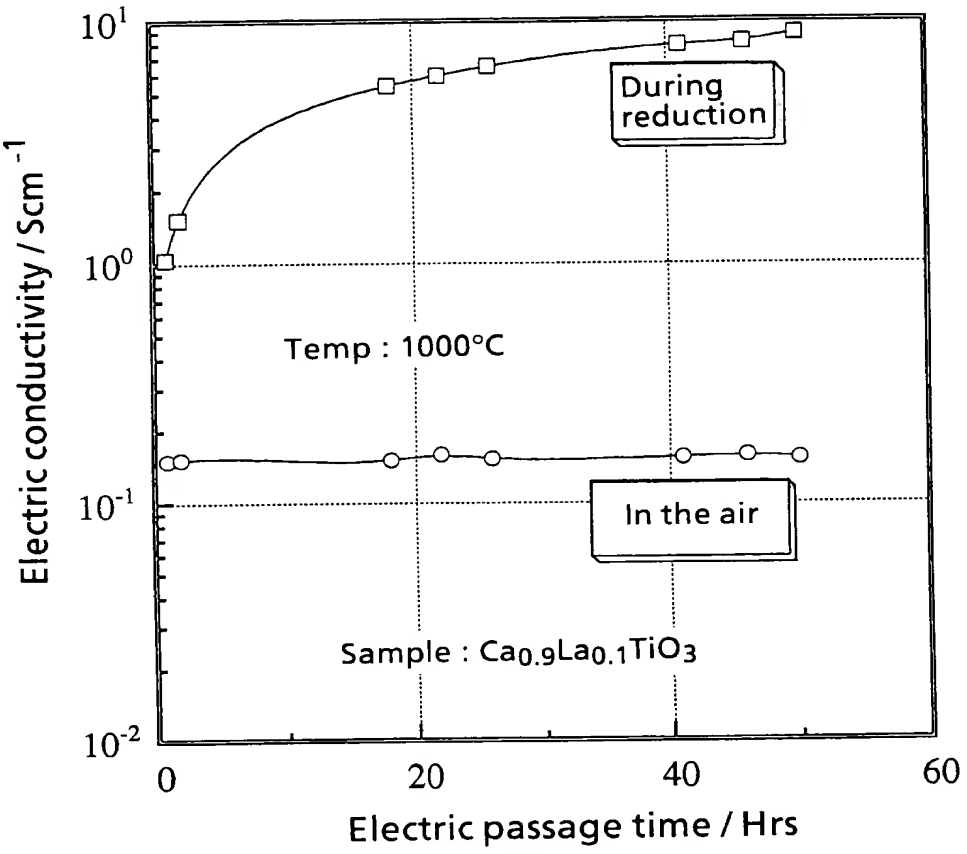


FIG. 44(a)

Vertical current collection Advantage : High resistance can be evaded by small thickness.

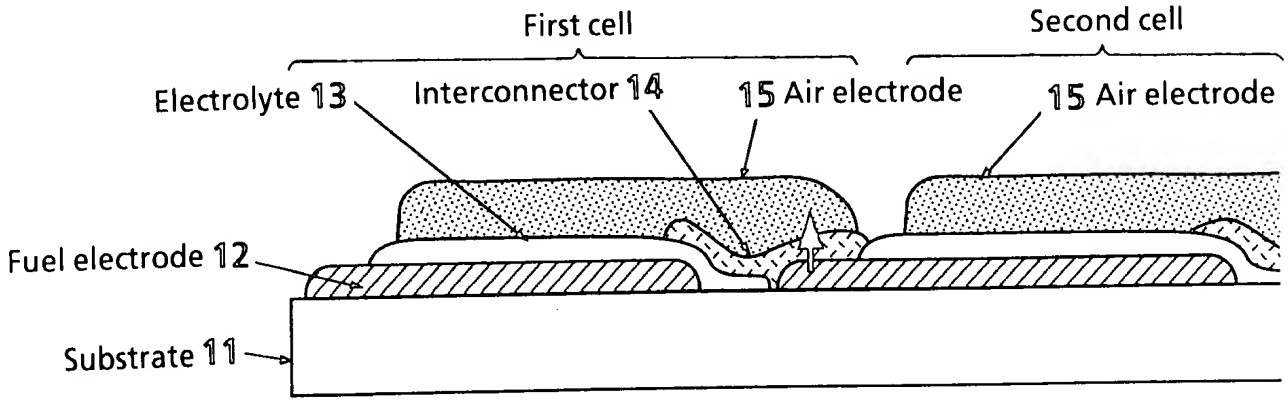


FIG. 44(b)

Horizontal current collection Disadvantage : Not usable for a high resistance material

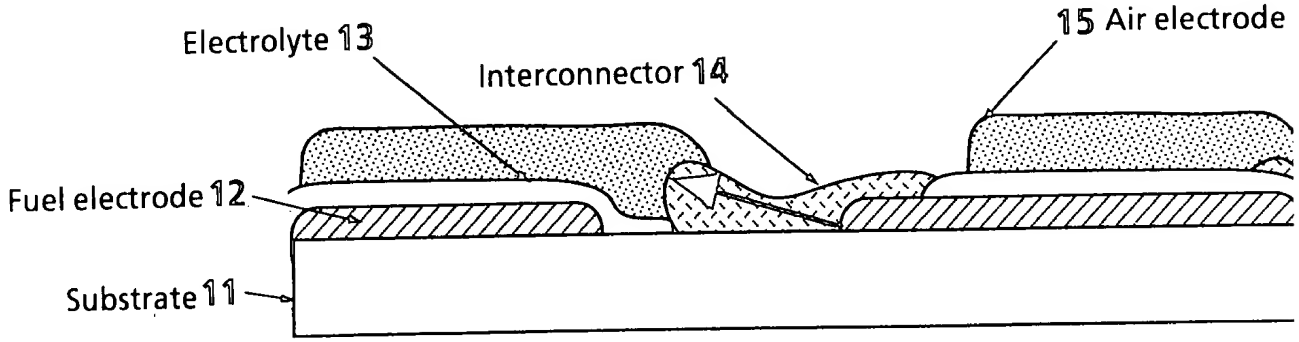
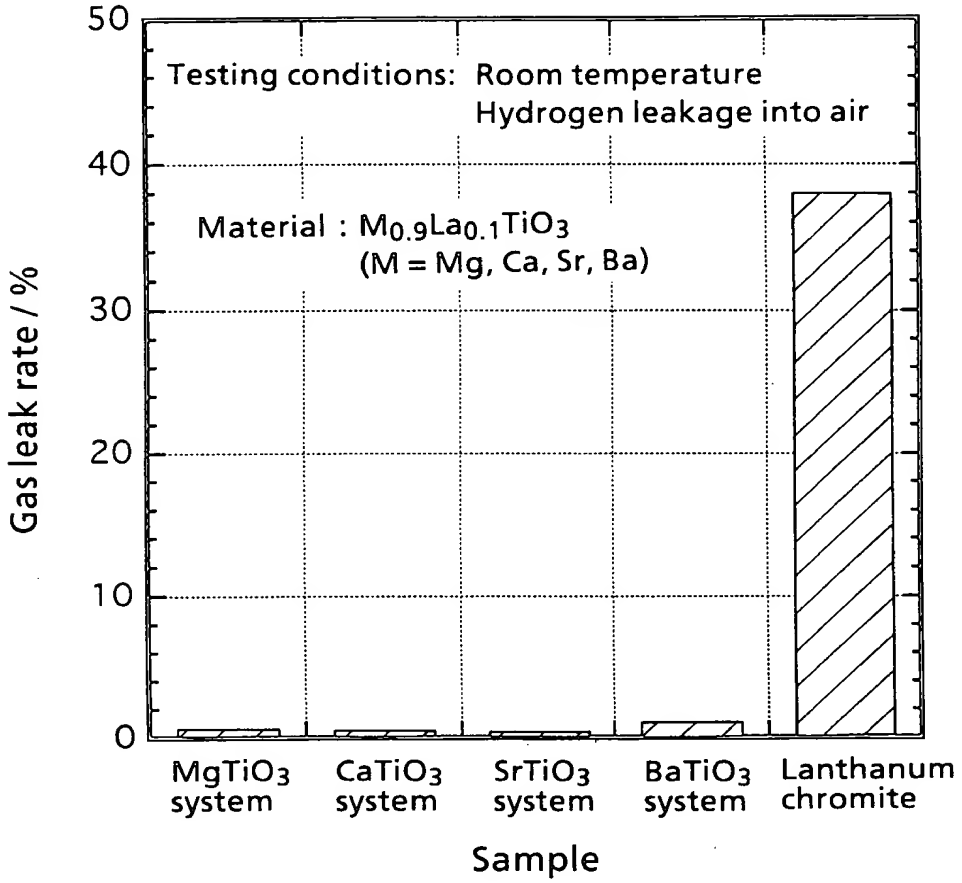


FIG. 45



20vol% Nb_2O_5 was added to samples other than lanthanum chromite and $MgTiO_3$ system

FIG. 46(b)

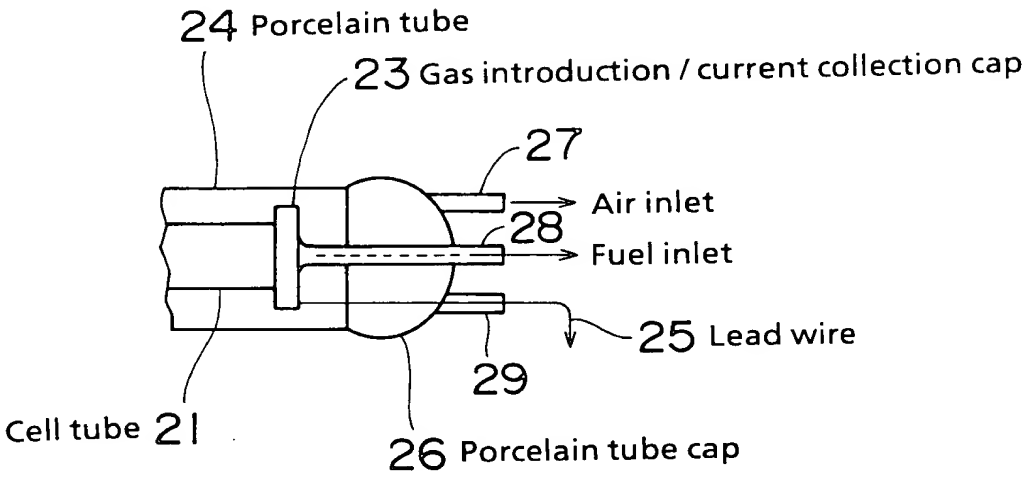


FIG. 46(a)

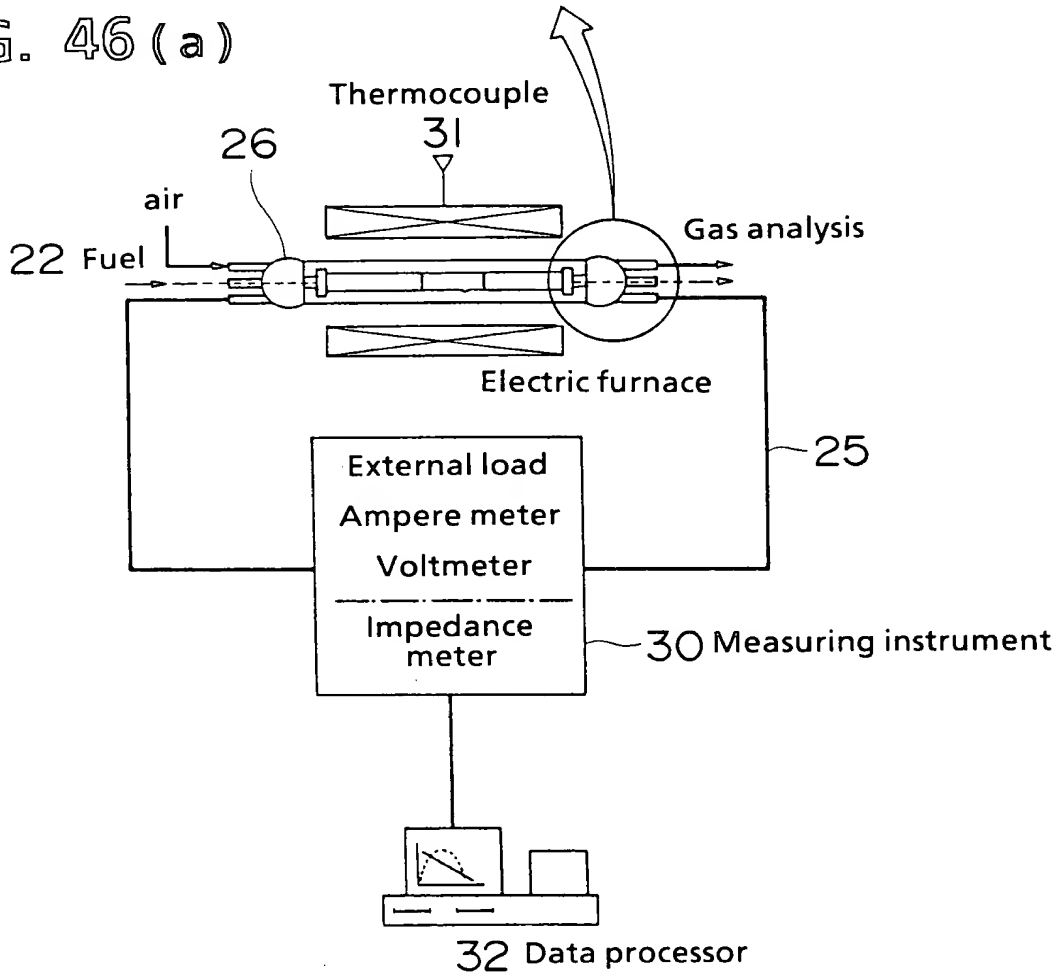


FIG. 47

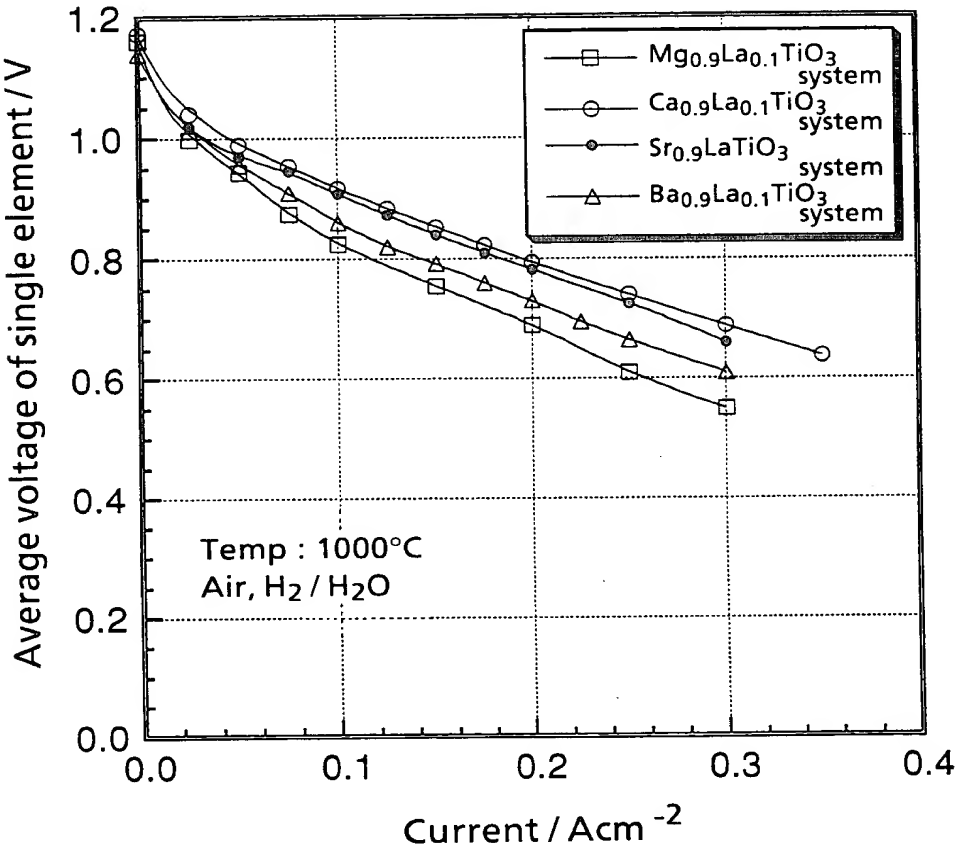


FIG. 48

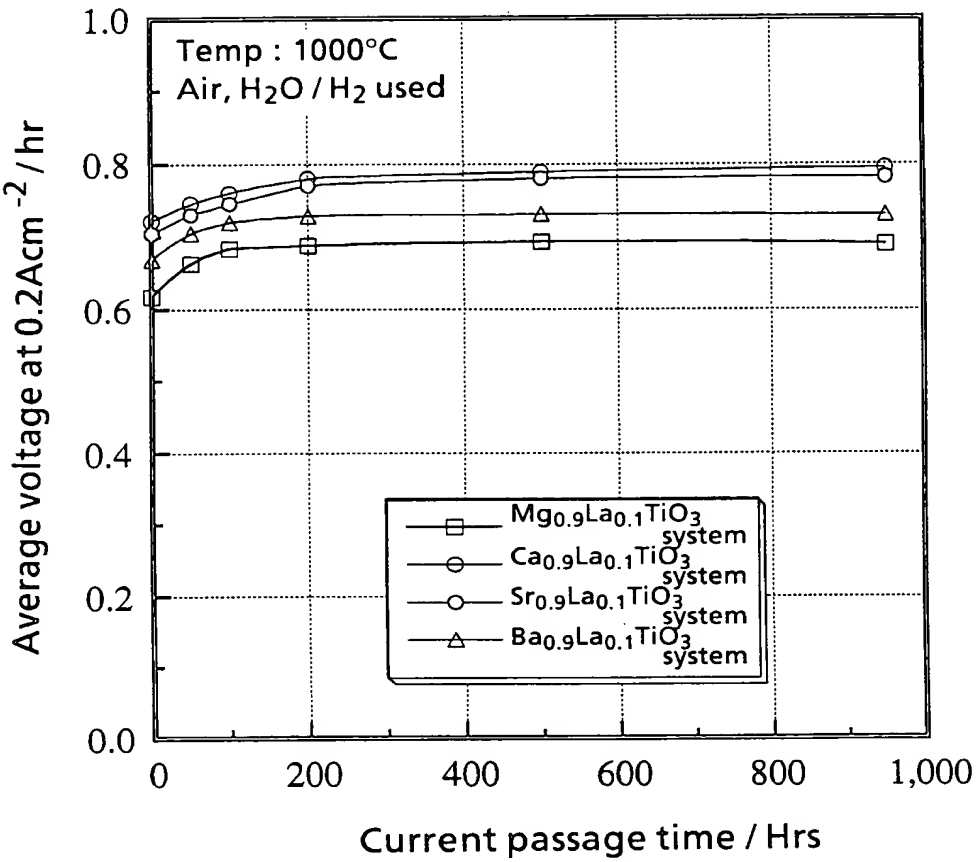


FIG. 49

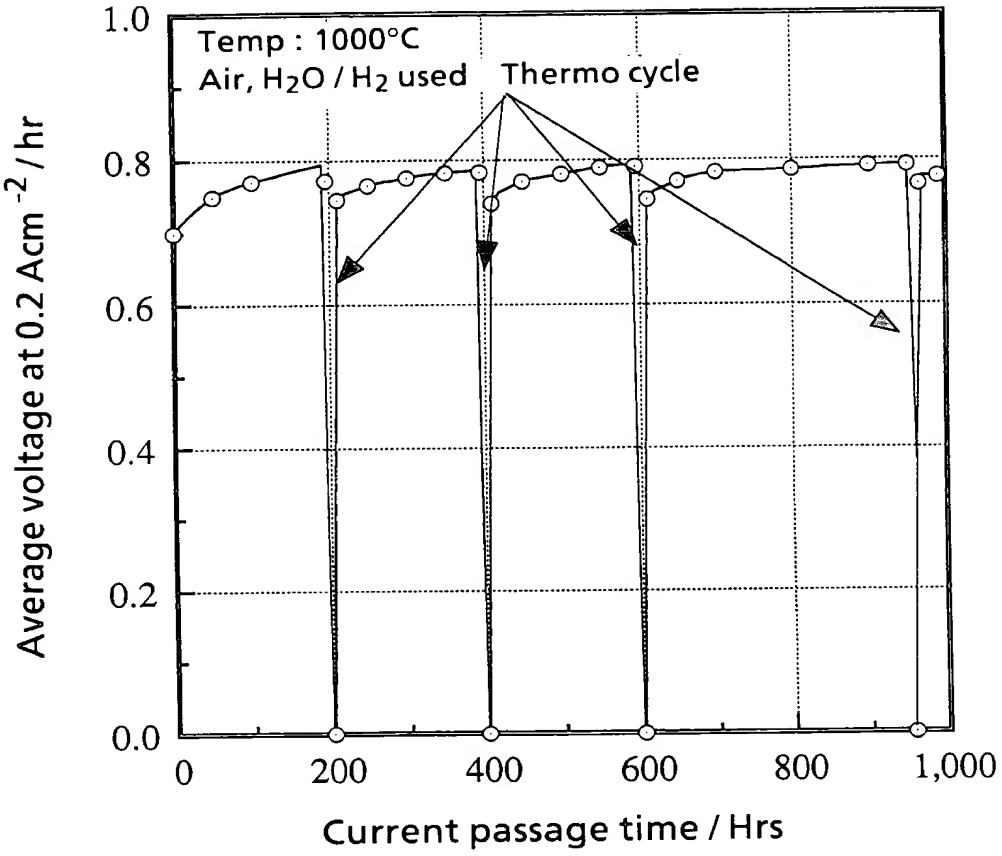


FIG. 50